

SEQUENCE LISTING

<110> Procop, Gary

<120> SALMONELLA DETECTION AND IDENTIFICATION

<130> CCF-6566

<160> 14

<170> PatentIn version 3.2

<210> 1

<211> 4035

<212> DNA

<213> Salmonella typhimurium

<400> 1

aagcttcac tgtctactgg gtgacgaaga tataatgttg taaacgcgct cctttaacgt	60
atctgagccg agctaaggat gatctcataa ctctccggga gtcggagaaa agcagtaagc	120
aggaaaataa ggaattaact cttcattttc aatacaactt ttgttggttac agttactgca	180
acctttgctt gtatccttcg tacaggagaa cgccgttttc agatgttcaa atacctctct	240
tctggcagga aagtcaggcg tatagaagat cttctgcgct ttctctgtgg gtaccgccat	300
tttggtttgc tgctcgtttg ggataatgca tagagagcgc caagtcgttg cgtcgggtatc	360
tcgagtatat cgaaatccat gtggccattg acctcttcaa gcgtcacggt aactacctgc	420
tcttttttga gcaccaacat cccaggttcg tcacagtaaa tcgtatcgtg attattgcta	480
atcgtcagtt taccgctccg aaagcaaact aaagtgaac tgcttacata aagatttttg	540
atggtaacct gctgagtctg acttttaatt tgctgccggg tatttgtaaa aagtgatttt	600
aatttctgta agttatctgc ggcaggacgc tgatgactat tacttacaaa ggttacattt	660
tccatattat ccctttgttg atgttatttt aatgttcctt actggtatcc tactgaaaaa	720
atctgagttg taaatgctct ttattagcgt gtgttggaac tggctctgatt gttacaccaa	780
aagaacccaa atttgggtaa tttatctaca gtagtttaag cccaatggg gatgatggtt	840
cttttaatat gtgttgagac gcattataca gaataaattg attttatttc tcacttttca	900
ttctattttc atcaggaatc cctgtgtcct gtgcggtaat ctgctgctat cgagaacgac	960
agacatcgct aacagtatat atggaaacat caaaagagaa gacgataaca agcccagggc	1020
catacatagt tcgattactt aacagctcac tgaacggctg tgagtttcca ttgctgacag	1080
gccgaacact ctttgtggta ggtcagagtg atgcgctcac tgcttcagggt caactccctg	1140
atataacctgc cgatagcttt tttatcccgc tggaccatgg cggagtaaatt tttgaaatcc	1200
aggtggatac ggatgcgacc gaaattatac tccatgagct gaaagaagga aattctgaat	1260

ctcgttcggt gcaattaaat acgccaatac aggtcgggtga attgcttata ctgattcgcc 1320
cggaaagcga gccgtgggtg cccgagcagc ctgagaagtt agaaacgtct gcaaaaaaga 1380
acgagccgcg ttttaaaaac ggaattgtag cagcactggc cgggtttttt atattgggaa 1440
ttgggactgt ggggacgtta tggataacta actcgccgca gcggcaggcc gcagagctcg 1500
attcgttatt ggggcaggag aaggagcgtt ttcagggtgt gccaggccgg gacaaaatgc 1560
tctatgtcgc tgcgcaaaat gaaagagata cgttgtgggc tcgtcagggt ttagcgaggg 1620
gcgattatga taaaaatgcg cgagtgatta acgaaaacga agaaaataag cgtatctcta 1680
tctggctgga tacctattat ccgcagctgg cttattatcg gattcatttc gatgagccgc 1740
gtaaaccctt tttctggcta agccgccagc gaaacacgat gagcaagaaa gagctcgagg 1800
tgttaagtca aaagctgaga gcgctaatac cttacgcgga ttcggttaac atcacgttga 1860
tggaacgatg taccgcagca ggccaggcgg aagcggggct aaaacagcag gcgttacctt 1920
attcccgcag gaatcataag gggggcgtaa cgtttgttat tcagggggcg ctgatgatg 1980
tagaaatact cagagcccgt caatttgcg atagctatta ccgcacatgg ggaggacgt 2040
atgtgcagtt tgcgatcgaa ttaaaagatg actgggtcaa ggggcgctca tttcagtaacg 2100
gggcggaagg ttatatcaaa atgagcccag gccattggta tttcccaagc ccactttaat 2160
ttaacgtaaa taaggaagtc attatggcaa caccttggtc aggtatctg gatgacgtct 2220
cagcaaaatt tgatacgggc gttgataatc taqaaacgca ggtaacagag gcgctggata 2280
aattagcagc aaaaccctcc gatccggcgc tactggcggc gtatcagagt aagctctcgg 2340
aatataactt gtaccgtaac gcgcaatcga acacggtaaa agtctttaag gatattgatg 2400
ctgccattat tcagaacttc cgtaaatcag ttataaggtg gattatgtcg attgcaacta 2460
ttgtccctga gaatgccgtt atagggcagg cggtaaatat caggcttatg gaaacggaca 2520
ttgtctcgtt ggatgaccgg ctactccagg ctttttctgg ttcggcgatt gccacggctg 2580
tgataaaca gacgattacc aacaggattg aggaccctaa tctggtgacg gatcctaaag 2640
agctggctat ttgcgaagag atgatttcag attataacct gtatgtttct atggtcagta 2700
cccttactcg taaaggagtc ggggctgttg aaacgctatt acgctcatga ttcgtcgata 2760
tctatatact tttctgctgg taatgaccct tgccggctgt aaggataagg atcttttaaa 2820
aggactggac caggaacagg ctaatgaggt cattgccgtt ctgcaaatgc acaatataga 2880
ggcgaataaa attgatagcg gaaaattggg ctatagcatt accgttgctg agcctgattt 2940
taccgctgcg gtgtactgga ttaaaactta tcagcttctt ccccgccac ggggtggaat 3000

-3-

agcgcagatg ttcccggcgg attcgcctgg atcgtctccg cgagctgaaa aggccaggtt 3060
 atattcggct attgaacagc gactggaaca gtcattacag acgatggagg gcgtgctctc 3120
 cgccagggtc catattagtt atgatattga tgctggtgaa aatggccgcc cgccaaaacc 3180
 tgttcactctg tcggcattag ccgtatatga acgaggttcg ccgcttgccg atcagatcag 3240
 cgatatcaag cgtttcttaa agaatagttt tgccgatgtg gattatgaca acatttctgt 3300
 tgtgttgtca gaacgttctg atgccaatt acaggctccc ggcacaccag taaaacgtaa 3360
 ttcttttgca accagttgga ttgttttgat tattttgtta tccgtgatgt cagcaggctt 3420
 tggcgtctgg tattacaaaa accattatgc ccgcaataag aaaggcataa cggctgatga 3480
 taaggcgaaa tcgtcaaatg aataggcagc cattacccat tatctggcaa agaatacattt 3540
 ttgatccgtt atcgtatatc catcctcagc ggttgagat agcgccggaa atgattgtca 3600
 gaccgcgcgc cagggcgggc gcaaatgagt taatactggc ggcatggcgg cttaagaacg 3660
 gagaaaagga gtgtattcaa aactcactga cgcagctgtg gctgcgtcag tggcgccgac 3720
 tgccgcaagt agcgtattta ctcggttgcc ataaactgag agccgatctg gcaaggcagg 3780
 gagccttgct tggcctgccg gattgggcgc aagcattttt ggcaatgcat caggaacaa 3840
 gtttatctgt ctgcaataag gcgccgaatc accggttttt acttagcgtc gggtatgcac 3900
 agttaaatgc cctaaatgaa tttttacctg aatcttttagc acagcgtttt cctttgcttt 3960
 ttcttcatt tattgaggag gcattgaagc aggatgctgt agaaatgtca attttgctac 4020
 tggccttaca atatt 4035

<210> 2
 <211> 20642
 <212> DNA
 <213> Salmonella typhimurium LT2

<400> 2
 tgagccaggc taccaaccac ctccggatga ttatatataa gaattactac tcaaaaaatc 60
 ttttttataa taaaagctca acacatggtc ataaatgata aaaaatattt taattcattc 120
 ctaccgcaat cggtaacgcg caattatcgt cagggtacagc agggttatgt gcaaaagcag 180
 tgcgctgtaa atgcgcgtct agtttcagtc cccggaacag cgatagcggg gaagagtcca 240
 tccccaaacg atacataacc ttcttacgat aaatactgac ggtttttgtt cccagaccaa 300
 attttttcgc cagttcaatt gccggatgtc cggaggataa taatatcagc agcgcatatt 360
 tcgcctgcgt gacaccggga ggtagattcc accaggcgta ttgattgata ttaaacaata 420
 cctcttccgg cgtctcgccg gcattaaaag catacgtagc agccacgggt ttcttttgtg 480

gcctgtggca gaaacgcagc caggcttccg gaagacggag cttctctcgc tccgagcgga	540
tagcgcagga tagttcgtct tttaaaacat aatccataac gccaaaatat tgcagcacac	600
agcgatcgat ataatacaag cgatctgcca ctaccaaaac tttacggttc tgcaaccgcg	660
tcagcaacgc atgaaaaaga taaacatgct catgcggggtt caaagctaaa atcagcccgg	720
cgtccggcat atcggatagg gaatgcaaaa gtgcagttaa tgagttacac gttttaacgc	780
acttttccgg atatttttgc ttaaaaatag actgtagggc ataacaatta gtccagttaa	840
taccgtatat aattacattt ctcatattt tctccttttt tgaaaactga ccacagcttc	900
ggtaatgatt tttcttctcg ggcgactact gcgcaagtag ataacgcctt cttactacaa	960
aghtaataag accagatacg ttattacatg cgcaatgtcg ttaccgaaat gaattccttt	1020
tacaaatctg ataattgatta aatttgctgt tttactttac tgtaattctct tagagtacaa	1080
cgattgcccg ggccttggtg gccatgtatg tctgacaatg aacgctttcg attccctttc	1140
attaactaca tatcactggt gtagcgatac tgaaatatac actacgatta aaaaaatatt	1200
tggtatctgt aacgcaaaca gatagtaacg tttaaaataa tttcacaaat caatggttca	1260
ttgtacgcat aaagctaagc ggtgtaatct taaaatgccg tttaaaaata gcgataaaat	1320
aagaaggcgt atcatagcca cacatcgtcg cgacttgtga aatattttcca gccccatac	1380
gtaataattt tatagcctga ttcatacgag catccaggta tattttacta aaactcacct	1440
cttcagcgge cagttttcgc ttcagacttg atacgctcat aaacagcttt cctgccacct	1500
cagcctgtga ccatttgcg gtgagatcgc tgataataat gttataaaact ttctcttttg	1560
tcgtaatttt tattgctcgc tcaaggaaat caaaccacc gggcttacgt acaaatgccg	1620
atataagata catcaatgag aaatatgaat aatcatgac atcaatactc acattactac	1680
aaaccgctgg acatgccaca ccattgcaaaa tagagtcaaa agtatcactc atccctggca	1740
acaagtcgc atgaaaaaaaa tactttggtt tcgtttttta tgatagctct cgatcattat	1800
agtttcttgt actgtaaaaa actttgtaga atttttgcat taagtcatag gaaacttcca	1860
gtgaagaaaa atcaatatgc ccttctattt cgctcactact aagcgtgatt gtttgatctt	1920
tttccaataa aaataaacac ggcgagatc gttcgatgaa ctcccaaat tcgttttcaa	1980
ttcgcaaaact gcctttatta agtttaaca ataagcagtt tgcgacataa tagtctctta	2040
cgtcagctaa tccatttatt aatggaaatt tggtcggctg ttgaagggtga ttattgctaa	2100
tggcctcaac tgatttatc attgaaggca ataccatatt ttatcctgtg tgctataagg	2160
aactcaaaat cgttatattc ttataaaca ataattaaaa ctacagaga tgatttaaat	2220

ccgatttttt tattattata gccataaatt acattccaac gcgcgttcat ttcgtcacia 2280
 aaagataccc ttacaaactt tatgcacaat ttigttaatga aagcttacia tattaatata 2340
 atcatttcag aataaaacgg ctggcagaca tcttaataat ccatatacat caataagata 2400
 gacacactgg catgggtgat tttctgcatt atttctgat atataacca taccttatca 2460
 caaatcgcca gcaatggggg ttcaccagtc aattgcctct ttgttttccc cgcccgataa 2520
 aataatctcc tgcattccagg aggtcatttg tgactgtgag ttcattgaac caactaatac 2580
 ccggtttaaa gctcatata aatgggtgcc cgggttcaact ttgtctaaca tgtttttag 2640
 catagccgtt tgctgtcaa aagaaacaaa agccgaatca cactgttag gatctttgaa 2700
 ggcattcatc tcttgataaa tgctatcttt aagcgtttca gaagaggctg actcaggaag 2760
 cgccaaaagt cgttggtaga atgcatcata aagatcaacg tcgccgccat tgcctaaagg 2820
 cgcgctatcc atattattca gcatagcggc cctggcactc aacgaaacca caccgctgc 2880
 ttcagtatct gctgtcggga ccaataaga agtcggaatc gtaccggga tcacctata 2940
 acctccgctt gogtttttgt cttccattca tcaataagtg cgttaatggc gttatcagaa 3000
 attgtccggc agtcttggg aagttcatca agatgatgct taatgacgcc tactgccgtt 3060
 tcaacaaatt gttcaggga aaattctgag atctgatcgc cgcaactcat gataaagcgc 3120
 tgttctggt gatatttaag attaaaagt cctggccagt tctccataag caacaccatc 3180
 agtttttggg gatctttttt cgcattaact ggcagtgtta aaaaagttg cccctcaggc 3240
 ttatcgaaat cccttagcca ctcatccagg acggttaaaa gcgtttcggg atggctgacc 3300
 gcagctgaaa ataactcgcg ggcataaatc tgtatttttt ccatccactt ccaggccatt 3360
 gtctgattat cagtaagata agcggcgacc tgctgtaacg cgtctatcat tccctgctcg 3420
 taaccttct gataggcgta catccgcaag gtctttgcct cttcttccgc ctctcgcaaa 3480
 atacgcttag ccggttgatg cgctgctgt tctaattctt caatagagaa ataacgttcc 3540
 agcgttttac gctttatcag tatccctca acaggcgaaa gcggggacgg tattgggata 3600
 tttttgagca tattgtaagg ccagtagcaa aattgacatt tctacagcat cctgcttcaa 3660
 tgctctctca ataatggag gaaaaagcaa aggaaaacgc tgtgctaaag attcaggtaa 3720
 aaattcattt agggcattta actgtgcata cccgacgcta agtaaaaacc ggtgattcgg 3780
 cgccttattg cagacagata aactgttcc ctgatgcatt gccaaaaatg cttgcgcca 3840
 atccggcagg ccaagcaagg ctccctgct tgccagatcg gctctcagtt tatggcaacc 3900
 gagtaataac gctacttgag gcagtcggcg cactgacgc agccacagct gcgtcagtga 3960

gttttgaata cactoctttt ctccgttctt aagccgccat gccgccagta ttaactcatt 4020
 tgccgccgcc ctggcggcgg gtctgacaat catttccggc gctatctgca accgctgagg 4080
 atggatatac gataacggat caaaaatgat tctttgccag ataatgggta atggctgcct 4140
 attcatttga cgatttcgcc ttatcatcag ccgttatgcc tttcttattg cgggcataat 4200
 ggtttttgta ataccagacg ccaaagcctg ctgacatcac ggataacaaa ataatacaaaa 4260
 caatccaact ggttgcaaaa gaattacgtt ttactgggtg gccgggagcc tgtaattggg 4320
 catcagaacg ttctgacaac acaacagaaa tgttgtcata atccacatcg gcaaaactat 4380
 tctttaagaa acgcttgata tcgctgatct gatgcgcaag cggcgaacct cgttcatata 4440
 cggctaattgc cgacagatga acagggtttg gcggggcggc attttcacca gcatcaatat 4500
 cataactaat atggaccctg gcggagagca cgccctccat cgtctgtaat gactgttcca 4560
 gtcgctgttc aatagccgaa tataacctgg ccttttcagc tcgcggagac gataccagcg 4620
 aatccgccgg gaacatctgc gctatttcca ccggtggcgg gggaggaagc tgataagttt 4680
 taatccagta caccgcagcg gtaaaatcag gctcagcaac ggtaatgcta tagcccaatt 4740
 ttccgctatc aattttattc gcctctatat tgtgcatttg cagaacggca atgacctcat 4800
 tagcctgttc ctggtccagt ccttttaaaa gatccttata cttacagccg gcaagggcca 4860
 ttaccagcag aaaagtatat agatatcgac gaatcatgag cgtaatagcg tttcaacagc 4920
 cccgactcct ttacgagtaa ggggtactgac catagaaaca tacaggttat aatctgaaat 4980
 catctcttgc gaaatagcca gctctttagg atccgtcacc agattagggc cctcaatcct 5040
 gttggtaatc gtctgtttat ccacagccgt ggcaatcgcc gaaccagaaa aagcctggag 5100
 tagccggtca tccagcgaga caatgtccgt ttccatagac ctgatattga ccgcctgccc 5160
 tataacggca ttctcagga caatagttgc aatcgacata atccacctta taactgatta 5220
 acggaagttc tgaataatgg cagcatcaat atccttaaag acttttaccg tgttcgattg 5280
 cgcgttacgg tacaagttat attccgagag cttactctga tacgccgcca gtagcgccgg 5340
 atcggagggt tttgctgcta atttatccag cgcctctgtt acctgcgttt gtagattatc 5400
 aacgcccgtg tcaaattttg ctgagacgtc atccagatag cctgaccaag gtgttgccat 5460
 aatgacttcc ttatttacgt taaattaaag tgggcttggg aaataaccaat ggcctgggct 5520
 cattttgata taaccttccg ccccgtaactg aaatgagcgc cccttgagcc agtcatcttt 5580
 taattcgatc gaaaactgca catagcgtcc tccccatgtg cggtaatagc tatcgacaaa 5640
 ttgacgggct ctgagtattt ctacatcatc gagcgccccc tgaataacaa acgttacgcc 5700

ccccttatga ttcctgcggg aataaggtaa cgctgctgt tttagccccg cttccgcctg 5760
 gcctgctgcg gtaacatcgt ccatcaacgt gatgttaacc gaatccgcgt aaggcattag 5820
 cgctctcagc ttttgactta acacctcgag ctctttcttg ctcatcgtgt ttcgctggcg 5880
 gcttagccag aaaacgggtt tacgcggctc atcgaaatga atccgataat aagccagctg 5940
 cgataaatag gtatccagcc agatagagat acgcttattt tcttcgtttt cgtaaatcac 6000
 tcgcgcattt ttatcataat cggccctcgc taaaacctga cgagcccaca acgtatctct 6060
 ttcatTTTTgc gcagcgacat agagcatttt gtcccgccct ggcaacacct gaaaacgctc 6120
 cttctcctgc cccaataacg aatcgagctc tgcggcctgc cgctgcggcg agttaagtat 6180
 ccataacgctc cccacagctc caattcccaa tataaaaaac ccggccagtg ctgctacaat 6240
 tccgtTTTTta aaacgcggct cgttctTTTT tgcagacgtt tctaacttct caggctgctc 6300
 gggcaccac ggctcgcttt ccgggcgaat caggataagc aattcacga cctgtattgg 6360
 cgtatttaaat tgcaccgaac gagattcaga atttcttct ttcagctcat ggagtataat 6420
 ttcggtcgca tccgtatcca cctggatttc aaaatttact ccgcatggg ccagcgggat 6480
 aaaaaagcta toggcaggta tatcaggag ttgacctgaa gcagtgcgcg catcactctg 6540
 acctaccaca aagagtgttc ggctgtcag caatggaaac tcacagccgt tcagtgcgt 6600
 gttaagtaat cgaactatgt atggccctgg gcttgttatc gtcttctctt ttgatgtttc 6660
 catatatact gttagcgatg tctgtcgttc tcgatagcag cagattaccg cacaggacac 6720
 agggattcct gatgaaaata gaatgaaaag tgagaaataa aatcaattta ttctgtataa 6780
 tgcgtctcaa cacatattaa aagaaccatc atccccattg gggcttaaac tactgtagat 6840
 aaattacca aatttgggtt cttttgggtg aacaatcaga ccattgccaa cacacgctaa 6900
 taaagagcat ttacaactca gattttttca gtaggatacc agtaaggaac attaaaataa 6960
 catcaacaaa gggataatat ggaaaatgta acctttgtaa gtaatagtca tcagcgtcct 7020
 gccgcagata acttacagaa attaaaatca cttttgacaa ataccggca gcaaattaaa 7080
 agtcagactc agcaggttac catcaaaaat ctttatgtaa gcagtttcac tttagtttgc 7140
 tttcggagcg gtaaaactgac gattagcaat aatcacgata cgatttactg tgacgaacct 7200
 gggatgttgg tgctcaaaaa agagcaggta gttaacgtga cgcttgaaga ggtcaatggc 7260
 cacatggatt tcgatatact cgagataccg acgcaacgac ttggcgctct ctatgcactt 7320
 atcccaaacg agcagcaaac caaatggcg gtaccacag agaaagcgca gaagatcttc 7380
 tatacgctg actttcctgc cagaagagag gtatttgaac atctgaaaac ggcgttctcc 7440

tgtacgaagg atacaagcaa aggttgcagt aactgtaaca acaaaagttg tattgaaaat	7500
gaagagttaa ttccttattt tctgctgttc ctgcttactg cttttctccg actcccggag	7560
agttatgaga tcatccttag ctgggtcag ataacgttaa aggagcgcgt ttacaacatt	7620
atatcttcgt caccagtag acagtggaag cttacggatg ttgccgatca tatatttatg	7680
agtacgtcaa cgctcaaacg gaaacttgca gaagaaggta ccagctttag cgacatctac	7740
ttatcggcaa gaatgaatca ggcagcaaaa cttttacgca taggcaacca taatgttaat	7800
gctgtagcat taaaatgtgg ttatgatagc acgtcctact tcattcaatg tttcaaaaaa	7860
tatttttaaaa ctacgccatc gacattcata aaaatggcga accattaaca ttttttgtat	7920
ctgtcactta agtaaagatt tttattaaaa ttgtaataat ttaaaattca gactgcgcgt	7980
taacacgctc tatcaggatg ggaggctatt caatatcatt gttctgtccg gaagacagct	8040
tatactgata tctatggtaa tttaaagtaa ggctgattat ataacacgat ttttgtgaac	8100
ttgtcatcgc tatgatgact ggtaaaacga tattgcctta ttcacagcgt aagaattcgt	8160
ccagatgaca ctatctcctt ccggctttta cctgtggat taaggccggc attttattca	8220
tattttataca tcatccgttc cctctgagaa ctatttgcct gaacggttta taccgaaaca	8280
gtcacgcttg ttagctttct gccaggcata cctcctctct tcctcctgat atcgatataa	8340
tgccctggagc cagcctgagg atgatactgc tcataaccct cctgcctttt tgacgtata	8400
actgaaggga gtaaagaaaa gacgatatca ttattttgca aaaaaatata aaaataagcg	8460
caccattaaa aacagtcttt catttatatt ttggaacctt agacaaatta cactcttaaa	8520
ctttcaacga atgggtcattt agtggaatc ttogagaaaa atggttctga tgggtgaatt	8580
atcagaccat taaccatgaa gatataataa gcagcattta caccctaaaa aatgcagta	8640
agatagctac aaaactaatc tctattgcaa tgaggccaag ttaaatatgt aatatattag	8700
atgcccggcg ctgactctct ctgcaccagg atatacggca gcgtccattc gataatcaca	8760
gttagttata acaatattat taccaacatg tcagttattt aaagcacagg cataagctaa	8820
ataatcaaat gttaaaaaca tataaacccg agcccgtaga atatgacatt aagctcataa	8880
taaaagctca acctgaccgt tagtactaac agcagaatta ctgaaacagt agattctatc	8940
ctaacgactt gtattagtta ttataacttt tcaccctgta agagaatata ctattatcat	9000
gccacatttt aatcctgttc ctgtatcgaa taaaaaatc gtctttgatg atttcatact	9060
caacatggac ggctccctgc tacgctcaga aaagaaagtc aatattccgc caaaagaata	9120
tgccgttctg gtcacctgc tcgaagccgc cggcgagatt gtgagtaaaa acaccttact	9180

ggaccaggta tggggcgacg cggaagttaa cgaagaatct cttacccgct gtatttatgc	9240
cttacgacgt attctgtcgg aagataaaga gcatcggttac attgaaacac tgtacggaca	9300
gggctatcgg tttaatcgtc cggtcgtagt ggtgtctccg ccagcgccgc aacctacgac	9360
tcatacattg gcgatacttc cttttcagat gcaggatcag gttcaatccg agagtctgca	9420
ttactctatc gtgaagggat tatcgcagta tgcgcccttt ggccctgagcg tgctgccggt	9480
gaccattacg aagaactgcc gcagtgttaa ggatattctt gagctcatgg atcaattacg	9540
ccccgattat tatatctccg ggcagatgat acccgatggg aatgataata ttgtacagat	9600
tgagatagtt cgggttaaag gttatcacct gctgcaccag gaaagcatta agttgataga	9660
acaccaaccc gcttctctct tgcaaaaaca aattgcgaat cttttgctca gatgtattcc	9720
cggacttcgc tgggacacaa agcagattag cgagctaaat tcgattgaca gtactatggg	9780
ttacttacgc ggtaagcatg agttaaatca atacaccccc tatagcttac agcaagcgct	9840
taaattgctg actcaatgcg ttaacatgtc gccaaacagc attgcgctt actgtgcgct	9900
ggcagaatgc tacctcagca tggcgcaaat ggggattttt gataaacaaa acgctatgat	9960
caaagctaaa gaacatgcga ttaaggcgac agagctggac cacaataatc cacaagcttt	10020
aggattactg gggctaatta atacgattca ctccagaatac atcgtcggga gtttgctatt	10080
caaacaagct aacttacttt cgccatttc tgcagatatt aaatattatt atggctggaa	10140
tcttttcattg gctggtcagt tggaggaggc cttacaaacg attaacgagt gttaaaaatt	10200
ggaccaaacg cgcgcagccg cagggatcac taagctgtgg attacctatt atcataccgg	10260
tattgatgat gctatacgtt taggcgatga attacgtca caacacctgc aggataatcc	10320
aatattatta agtatgcagg ttatgtttct ttccgttaaa ggtaaacatg aactggcacg	10380
aaaattaact aaagaaatat ccacgcagga aataacagga cttattgctg ttaatcttct	10440
ttacgtgaa tattgtcaga atagtgagcg tgccttaccg acgataagag aatttctgga	10500
aagtgaacag cgtatagata ataatccggg attattaccg ttagtgctgg ttgccacgg	10560
cgaagctatt gccgagaaaa tgtggaataa atttaaaaac gaagacaata tttggttcaa	10620
aagatggaaa caggatcccc gcttgattaa attacggtaa aatctgagag aggagatatg	10680
cattatTTTT ttatcatcgt aatctgggtg cttagcataa atacggcatg ggctgattgc	10740
tggcttcagg ctgaaaaaat gttcaatatt gaatccgaac tactttacgc tatcgcccag	10800
caggaatcgg cgatgaaacc tggcgccatt ggtcataacc gagatggttc aaccgatctt	10860
ggcctgatgc aaattaacag cttccatatg aaaaggctga aaaaaatggg gattagttaa	10920

aaacagttgt tacaggaccc ctgcatttct gtcattgtgg gcgcctccat tttatcagat 10980
atgatgaaaa tctacgggta tagctgggag gccgttggcg cttataatgc cgggacgtcg 11040
ccgaaacgat cggatataag gaaacgttat gctaaaaaaa tttgggagaa ttacagaaaa 11100
ttaaagaa tgtcagcaga agagaaaaac aaaagacttt ctatcgcggc aaacaaataa 11160
ttatacagaa atagcttact ttcagatagt tctaaaagta agctatgttt ttatcagctt 11220
gccgtcgtca taagcaactg ggcttgcatt gcttttagtt gtacaaactg tgaggcgtct 11280
tccagcattc tattgttccg tgaatcccgg aaatctgcac gtacctgctc cagattacta 11340
tgaggattat ccttaagtac aaggggccgc gccatcgctc cggttcttcc cactccgccc 11400
agacaatgaa tcatcggtaa atgcttatct gatgaactac gcccggcgcc gccattttgg 11460
ttactatfff tccacctatc cgccaggtat tctaactgat ccgtagacgg taacggctgg 11520
tgatctggcc aatttttcac atgcaatacc gggattgtat accgcttttc cccgcaggac 11580
agttgcatat tgtattggtc tatcgcttct cctgactgg ctgagctcac tttttggctg 11640
ttggtatgca cctcgccaaa ggtgtagctc cctctgaaat agggtggtaa ttgttttgcc 11700
tgcactctgat cttccgacgt taacaccacc aggcacgagc attctttttc aagaagcatt 11760
ttcatatgcy cttccagcgc atccggcgta ttttttgggt acgaaccggc taatgccaca 11820
ggcttaccgt caaaagttaa cgtattcact ggcacaggca ttccatcgct cagtttcacc 11880
tggttttgc tattaattgg aatgctgctg accgcaaate gtgccaggcc cagtgtcgg 11940
ccgtcctcgc tctgtggcat tggcgcgccg gcttctatfff tctcaagttc agctgtaaca 12000
tttttcagtt ctttagcaat aacgtgaatt ttttttacag cctgggttaa ttcattgagta 12060
gaggctttat caaccacct ctcaacctct cctccacagg ttccccattg tgagaaccgg 12120
gctacaccga cctgaatatt tgtaacgtt gtaacataat cattaagtgg ttttagcctct 12180
ggaattttat ttaaattctg taaattcgtc attaatgaac gcagcggggc gttacctgaa 12240
gccatctcct ggaagttttc tgcaggcta tttccatcca tttgttccag ttgcggtaat 12300
gttcttttaa gtccctttag cgcgatatcg agtaaagggt gcttactttc tgctccaaca 12360
tcgttatfff tttctgccac ttttgatatc ccgcctttta tgactaaagc ggcattcctg 12420
acaccaacat tatccttgc ttaataagg tttataaacc cttcgtcage agcttttaca 12480
cactccgtga tctgcactgc taaacgttgg gtaaggggtt tgttcatatt tatacgggac 12540
attaacagtg cgtcattaac cgctgtttcc ccatatfff ccgtagtgc atggagaaat 12600
gtctgtaaaa tcttttggtc ctgtactctg atatfffccg tatgtttttg caccacttca 12660

-11-

gtgttttttaa ataacggcat ttttccaagc cagggttaata cttttgacga aaatTTTTca 12720
ggcgcaacat atgccttata agtattttcc ttagcaatat aaagtcgggc atcattcgac 12780
acaccaactt ttgaaaacga agacaacggt aaattattca attttctctc ctcatacttt 12840
agcatattcc tgcagtatgt ttttgagcgc ttctgtctga ttcacaaatg actcaagctg 12900
cgatataata tggtaagtat ttgtcagatc ggtaattgca tgtataagca acaacgtctc 12960
tgcggcacat atatacgcta acgtaccttc attattcgca gccagttcac cattaatcac 13020
cataatctgc cgccagatag aatcgccaca aacaggcgat aacgggtataa tcataccggt 13080
caataaccag atatcatctt tagcttcaat agacgtaaaa atatcgctat cgagtaataa 13140
taagcactga ttgttgctgt caaaagtgtg cggtaaaccc aatttctcac caatattagc 13200
gataatatcc tgggtgtgctt gcaatttact ttctctctga attatatctt ttataagatt 13260
gcttcttcaa atttaatctg gttacacaat gtcttgatac tttttcgcgc ccatcgccgg 13320
gcgcaatatt tctctccttt aatccagtag aatagccatt cactacgcat cggaacacat 13380
atcagcagct ccttcggatc attttcaaca tgacgtaact tgcttttaat aacaaaacgc 13440
gaactgtcag caatatcatc atatattgca gccatacctg aaccgggtac tacatgtgtg 13500
atgattttca taacaattaa tcttattcaa ttgttgtcaa gcgagagaaa aatactacac 13560
cctggactca agactttttt taacaacacg gcatatatcc gcaaagggtca tcatatcagg 13620
aagatcgttt tcattgcaac taatgtcaaa ctctcacta agaccaaata caatatcaat 13680
taaatccaat gagtcagcgt aaagatctc aaccagatgg gtctgaccat tgatactatc 13740
aacatcaacg gcaatacaag aggtgatcac ttttttgact cttgcttcaa tatccatatt 13800
catcgcatct ttcccgggtta attaacgctg catgtgcaag ccatcaacgg tagtaataac 13860
ccgatccacg ccagggttat tcagggtatga ctcgtaagcc gggccagctc gccagctacc 13920
gtctccgata aggccgtcca gcacattact taacacatag tcagtttccc cttttagcct 13980
ggtcagcccc gcctctctgg caaactgcag tgcaatctca gccagttttt ctttttgtgg 14040
atgatgagta atgacctctt tgagagtctc cattttcgtt ttcaattctg ggtgcttgtc 14100
aatatcgcta cattgcgctt tcaacgctgc actctttatc gtgtcattgg gtaatatttc 14160
cgcacgcaag ccgtcaaacg ctctgcgtac agggaaacgg gtggaggtat ctggctccag 14220
ggctttacgt atcacacca aaaacgtctc acgggcgtcg aaatgcattg aatgcatatt 14280
cgtaacgctc ggtactgttg agaggaaact attttgctta aacttcaaac cagaaaatgg 14340
gccagtctta tctgtctgac tattatcatt atcggtcgta ccggctttat tacctgtaat 14400

-12-

taccgtcgtg tctgattgta aggtatcggg ttttaacattc tcgacgccag ccagttgact 14460
ggcaagcggc ttcacattca caatctctgc cgtctggctt tgctgtttat tatcatcaac 14520
gccgtgcacc gtggcctgta ccggcttgcc gataatgctc ttgctgggta cgccatcgac 14580
ttcatcaaaa gaggttggtt caccocgtagt gcccttttct gacgtgacca cctttccatc 14640
tttactttcg gatgaagcgt tggtcacagc ctctgccgtc gcatgagccg tgacgtcaat 14700
tttacecgcg atgccatggt caattgcccc tgtgctggcg ctgtgtgccg tctccgtttg 14760
atgcgtagtc gaatccacac gcgaatgact atgacttacg ttgctgctgt tagtcgaatg 14820
gtgtgactcg ccattgcgtt ggctgttacc aataaatggt ccgctattat caatcgtctt 14880
ccggctatta tcatggttgc tattatcgat atggcgctgg ctattatcga catggcttcg 14940
gctattgtta atatgcttac tgttatccac gctatgggta ctgctatcaa tattaatatt 15000
gatattaata ccgtaggtt ctgctttttt cccaccatca ggtactggc cagccgcagg 15060
ctccggaatt ttagggtcag gcagtttacc tgcaggaatt tgtgcaaaaa cattacgtag 15120
cagcaggggt atcaacgttt gcatttcaag gtgccgggct tcccgtccta cgctgggtacc 15180
ctgctcttgc gtttaattttt ggtggcacat atcaagcgcc tcaacagcct tcgccgccgc 15240
tttgtcaaca aggtgcgtaa gattgctgcg gggttaocgga totaacgtac agccaaagtt 15300
atgttcaatg cagctggcaa tataggcat cacctcctgc ataacaagat tcgtcgataa 15360
tttacttaat tcaccgccag tggtattttt gataatatct aacagctgct tttccagggt 15420
ttccagcttc gcttccgctt tctttgtttc tggcagccat ggcccaaaag ctgacttttc 15480
tttcaggcca tcttttatga tttgcgcggt ataactctgc cccaccttca tcagtagcgt 15540
cttcgcctca ggagaatcac tgggtggcgtt gagcgctgaa cgaaagagcc cggcaaactc 15600
cattatcgct ttcttaccgg cgacattatt tgaattggta aaaacttctt ttaacgcctc 15660
agcgtctttc ccgcatttaa acaatgcac cagactcgcc tgtttgatca gcgcgggaaa 15720
atcttccagt tgcgggcctt taatttcccc tgacagcgct gctgtggcac tttctctgac 15780
tgcgaaaga ttcgccgcaa gattcgtggc ctgcgttttg atctcggtct gcatacctgg 15840
cattatgacg gggggctgag tccttacct tgtaaccatt attaatatcc tcttctgtta 15900
tccttgagg aagcttttgg cggtttccag gctgctactt atcgtactgc tcagcacttt 15960
taccaggttg tcgtacaatg aattggcatt gctatatatt tgcgtcagcg tctgtaatgt 16020
ggttttcata ttttcttct gcgcttttaa acccgactgc caggcttgat atttggcgtt 16080
atccatttcg agttttgagt cttttcccg cgcgctaaa ccatcaatat cctgaaccat 16140

tttttgtaat ggcgtcagat caacggtgac gacataaccg gatccataag atttcaggca 16200
gctattcggg aaattcaatt cactgagcca ctgtctcgct tccgcttcag tggctacttt 16260
aacgccgctg cctgactgcg ctggaaataa aacggtatta ctgtttattt gattatatatt 16320
attgactaaa ctgttttaaat catttttgag tgaggtaaca tctagcttaa cggtattacc 16380
gtccttacct ggtaataaacc agcctcccat tttggaaaga atatcactga aggcctgata 16440
aaaatcggta tagactgcca caacgttttc ataaacgccc agatagctgt cacctatcgc 16500
cgatatattt tgggaaacca tatcccaaat ctgagcatca gaaatgggtg ttctcggctg 16560
cgccatagggc gaagcgctaa ataaggccga cgtcggcgca gaaaacgcgc tccgcagggt 16620
ctcattttgt tctgcggata atgacacgcc ggacttcgcc agcgcattca ggctgctggg 16680
caactgctgg cgcgccagcg tgcgctcgtc attattctct tcagagatcg gtggcggtga 16740
ctgcagcgtc tgctgtgcct ggtggatttt agtagccgcc tgcgataatg aaatgatatc 16800
tgtaccgcga tgttctgtgg tagacggtag cacggcagtc tcgacgtgct cgctcgccga 16860
gggagtctgc ggccgttcgg caacgatccc cggatgagga gaagcggaat aattttgaat 16920
attaagcata atatccccag ttcgccatca ggagcgcgat taaatcacac ccatgatggc 16980
gtatagatga cctttcagat taagcgcgaa tattgcctgc gatagcagcg agtgcggatg 17040
ctttcgactg gttaatgctc tccattgttt tcagcatttc ctgaatcagg ctggtcgatt 17100
tacgtgaact ttcacgggct tcgtccgatg cgggtgctggc aaccgggtta ttcacctggc 17160
taatttgctg ctcggaacgt tcctgagtag cggcgtagtg cccggacgcc cctgcaatac 17220
caccgaccgt gaccgagttc ttcataatca gatcgcccgt catctgcac ttcgcgcgat 17280
cgattcgggt catatccatg gtattctgct caagacgaat atcggattcg acagactcaa 17340
gacgtttcga cagaatagcc tgatgttcag gggagatttg tttattactg tctttaatac 17400
ccagactttc cgtggcgctg gttccggcat tagatttaag cgtcgcatca ttaagatfff 17460
tcgtcgcatc ggtaccgggt tttttcataat ttaacgattt cagagaatcg acgccttcag 17520
caccgagttt gacgctattc tgcccgttca gcacgttttt aatactgtgg ctttcagtgg 17580
tcagtttatc gatcttcgcy gcattatgtt taagcgcgcc tctttcatte tgcagcccct 17640
tatattccag tttggcgccc acgccagtga tcccactg aagcgcgctc tgggaaatac 17700
taccggacaa cgcattcatc ctttcgcyca tcatggagct tgccgtcggt ttagctgcat 17760
caaaactgac taatgacaac ttaccagaca gtttgctatc agcctgggtc aacgtcagca 17820
ttaacgtatt cgcggcagcc aacagcgcaa cggcactgga agacattccg ctaatatcaa 17880

aaaactttcc gactttctgcc tgctgctcgc gtaactgggt ttgcacaacc tcattcgctt 17940
tagtcgtgac attatttgcc agagcattca aatcctgatt catgtcggta ttttgaatac 18000
tggtttttaa aaaggacgtg atcgttccgg gggtttgct taatacccct ggcgaggcg 18060
cgctcagtgt aggactcaac cccaggtcac tgactttact gctgctaata ccaatactat 18120
tcagaatatac ttttagcgcta acggattgcg aagctgtctg tgaactattc tcaacagaat 18180
gattatttta ataagcggcg ggatttattc ccacattact aattaacata tttttctccc 18240
tttattttgg cagtttttat gcgcgactct ggcgcagaat aaaacgcgaa gcatccgcat 18300
tttgctgtac cgcagaagac atggcttttt gcagttccgc cgttaccttc tggttttcac 18360
caaataatttc tacggattgt ttaagccact gctgaatctg atccatggca aaacgggcca 18420
gcataaaatc agcaagcgcc tcgctggcat ttttaataaa tacgccctcg gcaacaccac 18480
cggtgactg ggctgcggta ttcgtgactt ccatgcccaa cgccacttta ttaggggat 18540
tacctaccag ctctttactt aaggcattcg tttgcaggcc catcttgcta cccacattac 18600
ccagaccgct agtaatacgt tgcacccct gggtaaagag tttgctgccg ttttgcgcca 18660
actgtttcag cacgttaggc accaacttct taatcgtttc gcccatcatt ttgctcagcg 18720
cgttaccag tttcgccgcc gcgcctttcc cgacaactgc gaccaccaca atgaccgcca 18780
ccatggcaat agcggcgaca atcgcaccaa caatgctgcc ggccatctct gccgttttct 18840
tatcgacgcc taatccttcc agcgctttgg taatgcctt gccaatcagc tccattaacg 18900
gcttcagcac atgctccata atcgggttta gcgcctgctg aataaacgac actcccgtcg 18960
ccgccttcac aatttcacg gccaccatta ccgcaagtc caccgcagcc agcgccagac 19020
tcgccccacc ggtaaaaaca gcggccacaa cgctgacaat ggtagcagc gcgccgagga 19080
ctttcccgat acatcccata atgcggttcg tttcctcggc tttgcgcgtc tcttcttgga 19140
attcagccga tttcttttcc atctccgct gacgcccttc ctgcaaggcg ttgaaaagcg 19200
caagatcggt ttgcaggctt tcttccgtat ttttgccac aatctcaata aacatggcca 19260
tgagcatagt gaggcggcg acatttgaca gattatctg ctcaccctgg gaaacctgat 19320
tctgagaggc ggcattagcc gttccctgga atttggtcag aatgttatcc gctttctcg 19380
ctttcgctt ggctctgtg cctgctttaa ccgtcgcac cgtggcctta tctaaggcct 19440
ctttcgctc tgctgcttct tttccggcct gttctaccgc ggcttcagct tgtgcatagc 19500
cggggtcagc cgggtccagc gattgcaatt tattttgcgc ctgcgtcagt tttttggctg 19560
cagcgtcata aacactcttg gcggtatccg tctttttgat actggcttca tagagatccg 19620

-15-

tcgcctcctg agcctctccc agagccgtct ggaattcttt cgatacctga atccccatct 19680
 ctttttgtga ctcaatcatc gcctgccata ccgccagacg agactccagt tgagacagcg 19740
 aaacatcgcc cagtaggggc attaacttgc caagcagtaa tgtcaattgc ccttcgctgg 19800
 agagtttttc ccggggcgcg tccgtaggcg gcttttagacc caccgtatta atagcgctct 19860
 cgccggactt tgttccggct ttaaggctgc ccgctttcgt tgccaccaca tctttaaaag 19920
 ctttatccgc cgcttttaaa aagtcggtgt tcttacgaac gccttcaaaa gccgcctcag 19980
 cgaggcgcgg attttgggta tatccgctac ggctaattgt acttgcgta tttaccataa 20040
 ttattccttt tcttggtcac tgtgctgctc tgtctccgcc gtttttagcg cctccagata 20100
 gaccaacgct ttgcccgcga gagactcatc ttcagtacgt tcattgacaa gttcaaaaaca 20160
 ctgtctggct ttgctgcct tacgcattaa taattgacac tgcccggtaa aaaaaacggg 20220
 gcgataatca tttttaagta acgtaaacgc tactgcataa aggtcacatg ctttctgaaa 20280
 ttgttttttc agttggcata ctgccgccag tcccatgggtg taatcgggat tgtaaaaatc 20340
 ataatgcat aagaaacgaa agaacgtctc agcttcatcc agtcgtccct gggtataaaa 20400
 ctcataagca tgagcatata aaccgtccat catatcttga gggatcccat gaacgtcttt 20460
 tagcgtggcg ccttcactaa cggcatccca aatcatttcc gcaacacgtt cttcgctgac 20520
 attattttga taatccatta cttactcctg ttatctgtca ccgactttgt agaacttaac 20580
 gactgcgttt atctgatgca gttattaaac cccgacgggtg gttagtgaac attcaaaaaa 20640
 cg 20642

<210> 3
 <211> 194
 <212> DNA
 <213> Salmonella typhimurium LT2

<400> 3
 cctttcttat tgccgggcata atgggtttttg taataccaga cgccaaagcc tgctgacatc 60
 acggataaca aaataatcaa aacaatccaa ctgggttgcaa aagaattacg ttttactggc 120
 gtgcggggag cctgtaattg ggcatcagaa cgttctgaca acacaacaga aatgttgtca 180
 taatccacat cggc 194

<210> 4
 <211> 759
 <212> DNA
 <213> Salmonella typhi

<400> 4

-16-

ctattcattt gacgatttcg ccttatcatc agccgttatg cctttcttat tgcgggcata 60
 atggtttttg taataccaga cgccagagcc tgctgacatc acggataaca aaataatcaa 120
 cacaatccaa ctggttgcaa aagaattacg ttttactggt gtgccgggag cctgtaattg 180
 ggcacagaa cgttctgaca acacaacaga aatgttgtca taatccacat cggcaaaact 240
 attctttaag aaacgcttga tatcgctgat ctgatgcga agcggcgaac ctcgttcata 300
 tacggctaata gccgacagat gaacagggtt tggcggacgg ccattttcac cagcatcaat 360
 atcataacta atatggaccc tggcggagag cagccctcc atcgtctgta atgactgttc 420
 cagtcgctgt tcaatagccg aatataacct ggccttttca gctcgggag acgataccag 480
 cgaatccgcc gggaacatct gcgctatttc caccgtggc cggggaggaa gctgataagt 540
 tttaatccag tacaccgcag cggtaaaatc aggctcagca acggtaatgc tatagcccaa 600
 ttttcgcta tcaattttat tcgcctctat attgtgcatt tgcagaacgg caatgacctc 660
 attagcctgt tcctggtcca gtccctttta aagatcctta tccttacagc cggcaagggt 720
 cattaccagc agaaagggtat atagatatcg acgaatcat 759

<210> 5
 <211> 274050
 <212> DNA
 <213> Salmonella typhi

<400> 5
 tgattttaaat caataaaaac cacaccataa aaagggtgat gaagggaatt tattgtttta 60
 catcaactta caccattcag acctataaac tttttacata aattttcaac tatcttttgt 120
 aggtaaccgt tttttagca cgcaggattt tgcactgcag aaagaagcag ttaagctaag 180
 ggaactggaa attcgcagga gagcgagatg gcgactgagt taacctggca cgatgtgctg 240
 gctgatgaga aacagcaacc ttactttatc aatacgttc aactgtttgc tggcgagcgt 300
 cagtcgggta tcacggtcta cccgccgcaa aaagatgtat ttaacgcctt tcgcttcacg 360
 gaactgggag acgttaaggt ggtgatcctg ggacaagatc cttaccacgg ccccggccag 420
 gcacatggc tggcgttttc cgtgcgtcct gggatcgtc ccccgccgtc attagtgaat 480
 atgtacaaag agctggaagc ctccattccc ggctttgttc gccccgcga cggttatctg 540
 gaaagctggg cgcgccaggg cgtactgtta ctgaatacgg tgctcacggt acgggcaggc 600
 caggcgact ctcatgccag cctggggtgg gaaaccttta cggataaagt gataagcctg 660
 attaaccaac accgcgaagg ggtcgtcttc ctgctgtggg gctcgcacgc ccagaagaaa 720
 ggcgcgatta ttgatccaca gcgccaccat attctgaaag ctccgcaccc ctgcgcaactc 780

tctgcgcacc gcggatTTTT tggctgtaac cattttgcgc taacgaacca atggctggaa	840
caacacggcg agaaaactat cgaactggacg ccagtattac cggctgagag tgaataacgt	900
tggcgactcg ccgttttata gcccgataa cggcgcgaaa gcgccttgtc tgaccgggcg	960
gtagaaagta catcattggc ccggcgcgcg ttgcgtcacc gggctgcagc ccttacgctt	1020
tattctgtcg ccaccactcg gcgagcagta cgctgtcgc aaccgacaca ttcaggcttt	1080
ccacgttccc ggtgcggtta attttcacgc acagatcgtc gggttcgcgc gccgcttcg	1140
gcaggtagtc atattcacgg cctaagacca gcaccatctt ttccggcagg gtcgactaa	1200
agagcgctg accgcgatcg ctggacgtcg tcaccacggt gtaccccgcc tgacgaaagt	1260
catccagtac gtcaacaatg ctttcaccag tgattggctg gacatgttcc gcccgcctt	1320
ccgcggtacg aatcgccgcg ccggactcca gcaacgctgc atcctgtacc accacgccct	1380
tcacgccgaa gtgcgcgcag ctacgcatca tgccgccag attatgcggg ttagcgacat	1440
cttccaacgc cagcacgcag tcttgatccg ccgcctgctt taccattgc ttaacggctg	1500
taccgttaag ctttttaatc aggaaacaca cgccgcgctg gtgctcagtc ccggaagctt	1560
ttgccagttc ggcttcatcc accacatggt aggttttacg attcgccgcc atccagcgca	1620
gcgcctcttt aaaacgcggc gttacgcttt ggataaacca tgcgcgcacg atggcgtcag	1680
gacggctctg gaatagcgcc tggcaggcat ttctgcgta gacgcgcgtc tcttcgcac	1740
gctggcgacg caaaacttca gggctgataa aacttttacc gctaatacca ccatgatcga	1800
ctttctcagg cgtttcatcg cctggcgcg gcggacacggt gcgccacggc gaagtttcat	1860
gtttacggtc acggctctga ttatttcgct catcacgggc gggcgacgt ccaccgtcag	1920
tgcgagactt tgctgggcg cctccccctt tcccggtacg cgggttatgg gtgcgtttat	1980
cagagtcata atcactacgg acatacatca ctttgacttt gccgcttttg ttttttaatt	2040
catcgttcat gcttttctcc accagcgctg cgcgaagcgc gaagattacc cgatgtgcat	2100
ccggttagcc atgatttcgt ttaaaagctt gcgactattg tactcattga ataaaacaca	2160
ttgttgttta gcacagactc ctcgataata tataacatta tagaaacatc ccgcgcgtag	2220
cgggacgtct tccgacgtat tcagaggta gctatgaaca ccgtttgtac ccattgtcag	2280
gccattaacc gcatccccgg cgatcggtt caggacgcgg caaaatgtgg acgctgcggt	2340
catgagttgt ttgacggaga agtcattaat gcgaccggcg aaacgctgga caaactgttg	2400
aaggacgata ttccagtgg gatcgacttt tgggcaccct ggtgcggccc ttccgtaac	2460
tttgcgcaa tcttcgagga tgcgcagaa gagcgacgc gtaaagtccg tttcgtcaaa	2520

gtaaataccg aggcggaacg ggaactcagc gctcgtttcg gtatccgcag catcccgatg	2580
attatgattt ttaaacatgg acaggtggtc gatatgctta atggcgagc gcctaaagcg	2640
cctttcgaca gctggctgaa cgaagcgctg taaacgccac ggggcgcac ttgtgccccg	2700
ttttcacctc tgccacaata gcgtttttct ccgcaaacgc tttctatgac caataacgct	2760
gtccttcagt tacgcgccga acggcttgcg cgcgctactc gcccttttct tgccagaggc	2820
aatcggggtt gccgctgtca acgctgcctg ctgccgctaa aatcttgcc gtgtgatacg	2880
ttaacgcctt ctccagcgaa aagccgtttt tgtctggcca tgtttgacac tgaaccgatg	2940
aaaccagca atacggcg gctgatagcc gatattttgc cagataccgc ggcgtttcag	3000
tggtcgcgta ccgagccgcc gcaggcggtg ctggagctgg tacagcatcc ggattatcag	3060
ccgatagtg tctttcctgc gtccctacgc ggccaagcgc gcgaggtcat ttccaccccg	3120
cccgccggga aaccgcgcgt gtttattatg ctggacggca cctggcccga agcacgtaaa	3180
atgtttcgta aaagccctta tctggatcat ctgccggtca tttccgtcga tttatcgct	3240
ctttcagctt atcgtctgcg tgaaatccat gccgaaggcg aatattgtac cgcgaagtc	3300
gcgatagcgt tgtagatct ggcgggagat ccgaggcg caaccagttt aggtgaacat	3360
ttcatccgtt tcaaaacgcg ctatctggca ggaaaaacgc aacatccggg aaacgtcaca	3420
gcataaaata gcgaaagcgt ttaaaattat ccggtcactt ctgtgtaagg gaaaccggta	3480
tgagccagca aggactggaa gcgctactgc gacaaaatc gatcgcggtg attggcgcat	3540
caatgaagcc ccaccgcgcg gggtacctga tgatgcgtaa ctgtgtggcg ggcggattca	3600
atggccccgt ccttcccgct acgcccgcct ggaaagccgt tttaggcgct atggcctggc	3660
cggatatcgc cagtcttct ttcacccccg atctggctat tttatgcact aacgccagcc	3720
gtaacctggc gttactggac gcgcttgcg cgaaagggtg taaaacgtgc attatccttt	3780
ctgctccac gtgcgaacat gaagaacttc ttgccagtgc ccggcattat aaaatgcgtc	3840
tgctgggtcc aaacagtctt gggctcctcg cgccgtggca agggctgaat gccagctttt	3900
ctcccgctcc gattaaacag ggcaagctcg cttttatttc ccagtctgcc gccgtgtcca	3960
atactattct tgactgggcg caacagcgtg aaatgggctt ttccctacttt atcgcgctgg	4020
gcgatagcct ggatattgat gtcgatgaac tactggacta tctggcgcg gatagcaaga	4080
ccagcgcaat tttgctctat ctggaacagt taagcgacgc ccgccgtttt gtttccgcgc	4140
cccgtagcgc ttcacgtaac aaaccgattc tgggtattaa aagcggccga agcccggcag	4200
cccagcgttt acttaatacc agcgcgggaa tggaccctgc gtgggatgc gccatccagc	4260

gcgcaggcct gctgcgagtc caggatacgc acgagctttt ttccgccgtc gaaacactta	4320
gccatatgcg tccgctacac ggcgacagac tgatgatcat cagcaatggc gccgcgcctg	4380
ccgcgctggc gttagatgag ttgtggtcgc gtaacggcaa gctggcgaca ttgagcgaag	4440
agacctgcct gcaactacgg cagacgcttc ccgcgcacat tgatattgcc aatccgctgg	4500
atctgtgtga tgacgccagc agcgaacatt acgtcaaaac gctggatatc ctgctcgcca	4560
gtcaggattt tgacgcgctt atggttatcc actctcccag cgctgccgcg ccgggtacgg	4620
aaagcgccca tgctctgac gagacgatta agcgccaccc cagaggcaag ttgtttacgc	4680
tgctgacaaa ctggtgcggc gagttctcat ctccaggaagc aagacggctg ttcagcgaag	4740
ccggattacc aacctaccgc acgcccgaag gcacgattac cgcgtttatg cacatggtgg	4800
aataccggcg taaccagaag caactgcggg aaacgccagc gttgccgagt aacctgacgt	4860
ccaataccgc tgaggcgcac aatctgttac agcgggcgat tgcggaaggc gccacttcac	4920
tggataccca tgaagtacag ccgattttac acgcctatgg gctgcacacg ctcccaacct	4980
ggattgccag cgacagcgct gaagcagtgc atatcgccga acagataggc tatccggtag	5040
ctctcaagct gcgctcgccc gacattccgc ataaatctga agttcagggg gtcattgctt	5100
acctgcgcac cgcaagcgag gtacaacagg ccgcgaacgc cattttcgat cgtgtaaaga	5160
tggcctggcc gcaggcgcgg attcacggtt tgctggtaca aagcatggct aaccgcgccg	5220
gcgcgcagga gctgcgtgtg gtggtcgagc acgatccggt gtttggtcct ttgattatgt	5280
tgggtgaagg cggcgtagag tggcgtccgg aagagcaggc cgtcgtcgcg ctgccgccgc	5340
tcaacatgaa tctggcgcgc tatctggtga ttcaggcat taaacagcgg aaaattcgcg	5400
cccgtagcgc gctgcgtccg ctggatattg tcggtttaag ccaattgctg gtccaggttt	5460
caaacctgat tgctgattgc ccggaattc agcgtctgga tatccatccg ctgctggctt	5520
ccgccagtga gtttaccgcg ctggatgtga cgctggatat tgccccgttt gatggcgata	5580
acgaaagtcg tcttgcggtg cggccctatc cccaccagct tgaagagtgg gtggagatga	5640
aaaacggcga tcgctgcctg ttccgtccga tcctgccgga agatgagccc caactgcgac	5700
aattcatcgc acaggtcacc aaagaggatc ttactaccg ttatttcagc gagatcaacg	5760
aattcaccca tgaagattta gccaacatga cgcagatcga ctacgatcga gaaatggcct	5820
ttgtggccgt gaggcggatg gacaacgctg aagagatcct cggcgtaacg cgcgcgatct	5880
ccgatcctga caacgtagat gccgaatttg ccgtattggt gcgttcagat cttaaagggt	5940
tgggtttagg acgccgttta atggagaaat tgattgccta tactcgcgat cacggattga	6000

agcggctgaa cggtattacg atgccgaaca atcgcggcat ggtcgcgctg gccagaaaac 6060
 tgggatttca ggtcgatatt cagctcgacg agggcatcgt gggattgacg ctgaatctgg 6120
 ccaaattgtga tgaatcgtga gtaatgtact ggaaatgttg accactttaa cgggtactga 6180
 tgttattatt gtcgccttat gtcgtctgca tagcacagag gacccttcaa tgaacagaga 6240
 agaaatgcac tgtgatgttg tcaaaattta agcgtataata acatcaacaa caccttgccc 6300
 aactccctaa gattttctcag tcagttgatg atgtagattt cttttataact cctgctactt 6360
 ttcgggagac actgctggag aaaatcgcca gcgcgacgca gcgtatttgt atcgttgccc 6420
 tgtatctgga acaggacgat gggggtaaag gtatactcga cgcgctctat gcggctaaac 6480
 ggcagcgtcc tgaactggac gtgaggggtgc tggtcgactg gcatcgcgcg caacgcgggc 6540
 gcattggcgc agcggcctcg aataccaatg cagactggta ttgccgactg gcgcaggaaa 6600
 accccggcat tgatgtcccg gtttacggcg tgccgattaa tacgcgagaa gcgcttggcg 6660
 tactgcattt taaaggcttt atcattgatg atagcgtcct gtacagcggc gccagcctga 6720
 acgatgtcta tctccatcag catgacaaat atcgtctacga tcgctaccag ctgattcgca 6780
 atcggcaaatt ggcagacatc atgtttgact gggtgacgca aaatctgatg aatggccgtg 6840
 gtgtgaatcg tctggataat acccagcggc cgaaaagccc ggagattaaa aacgatatcc 6900
 gcttataaccg tcaggagctg cgtgatgcgt catatcattt tcagggtgac gctaattgacg 6960
 agcagctctc cgttacgccg ctggtcgggc ttggaaaatc cagtctgctg aacaaaacca 7020
 ttttccatct catgccctgt gcggagcata agctcaccat ttgtaccctt tacttcaatc 7080
 taccagcggc actgggtgcg aatattatct agctactgcg cgacggaaaag aaagtcgaaa 7140
 tcattgttgg cgataaaacc gcgaatgatt ttacattcc ggaagatgaa ccgttcaaga 7200
 tcattggcgc gctgccctat ctctatgaga ttaacctgcg ccgcttcctg agccgtttac 7260
 agtattacgt caataccgat cagcttgttg tgcgtctgtg gaaagatgac gacaatacct 7320
 atcatttgaa agggatgttg gtagatgata aatggatgct actcaccggc aacaatctga 7380
 atcctcgcgc ctggcgtctg gatctggaaa acgccattct gatccacgat cctaagcaag 7440
 agcttgcccc tcagcgggaa aaagagctgg aacttatccg aacgcacaca accatcgtaa 7500
 aacattatcg tgacctgcag agcattgccg actatccgat aaaagtgcgt aaattgattc 7560
 gccgtctgcg ccggatccgc atcgacagat taattagccg tatcctgtaa tcgaagcccc 7620
 gtcctgtacg gggttttctc ttaggagtga actgggtgcg gtgttgattc cttttacggc 7680
 gttgtttctc tccgggtgca gccatctggc taacgaccac tggagcggtc aggataaagc 7740

ccagcatttt atggcatcag cgatgctatc ggcagccggt aatgagtatg cgcgtcacca	7800
gggagtaagc cctgaccgca gcgcagcgat agggctgatg ttttctttga gtctcggagc	7860
ctcaaaagaa ctctgggaca gccgcccgga aggcagcggc tggagctgga aagattttgt	7920
ctgggatgtc gctggcgcgca caaccggtta cgctatctgg caaatggcgc gatactaaag	7980
gcgtaagccc tttcctttac ggtgcaacat caacgaaacc aggaaagcca gaacggccat	8040
cgcggtaaca taccagaaga acgaactctc cataccgaca gatttttagcg acagcgcgac	8100
atattccgca gagccgcaa ataacgcgtt tgctaccgcg taagataaac cgacgcccag	8160
ggcgcgaacc tgcgcggaa acatctccgc tttcaggatc ccgctaactg aggtatagaa	8220
actcacaatc aatagcgcgc acatcactaa agcaaatgcg gcataaggcg acgtcacatt	8280
ctgcaacgcg gagagaattg gaacggtgaa aagcgtcgcg agtgcgcaa aacatagcat	8340
agaggtgcg ctgccaatct tatcgataa cgcgccgaat aacggctgca ccaacatgaa	8400
aacacacagc gcagccgtca taatgccgct ggcgacattg gcatgcatac ctgctgtatt	8460
taccagatat ttctgcatat aggtggtgaa ggtataaaag cacagcgagc ctgccgcggt	8520
gaaaccaagc accatcaaaa aggcctttgcg attacgccac aaacctttca acgaaccggc	8580
ttcttttaat gcgcgagtct catgcttcga ggtttcatcc agctggcgac gtagccataa	8640
cgccacaacc gccagcacgg cgcccagcgc aaaggggaata cgccatcccc aggcacgaag	8700
ctcagcatcc tccagaacct gctgcaaaat cacaacgacc agcaatgcca gtagttggcc	8760
accgataagc gtaacgtact gaaacgacgc gaaaaatccc ttacgacctt caagcgcaac	8820
ttcactcata tatgtcgcgc tgggtcccata ctctccccct accgagagcc cctgaaataa	8880
ccttgcaata agtagcagcg ccggtgcca ggtgccgatg gtatcgtaac caggtaagca	8940
ggcaatcacc agcgaccca tgcacatcat gcacaccgaa atcaacattg aggccttgcg	9000
cccgcgtcga tcggcaatgc gtccaaacag ccaaccaccg atagaccgca ttaaaaaacc	9060
ggcggcaaag acgcctgccg tttgcaaaag ctgagtagtg gtattactag aaggaaagaa	9120
gatatgtgca aaatagagcg agcagaaaga gtagacgtag aaatcaaacc attccactaa	9180
gtttccggaa gaggcccccga cgatagccca tatgtgtcgc cgcatctccg gagcctcagc	9240
gttgttttta tctatacgct gaataatttc tgccatactg ttctccttgt tgccaggctt	9300
aatcggcctt ttatttttga gattcagatt acgcgagact aaaaagtaaa taaagtgtta	9360
attatttgtc tgctaatttt tatccccacc gtgcctgatg ctggcgtttc cgtttcagat	9420
agtcttcgtc ctgacggatt ttatccccacc aacctttgaa aaccgttgcc gccgcggcct	9480

taataggatc attaccccggt gtattcaggc tgccgtcttc tgcatacttt ttaccacctt	9540
tatagtttagc gtatcgccgtg gcgcgggtgt atcccatctg aataaattta cgcgccatgt	9600
ccataccaac gaaatcatcc tgctgccggt aagcttcgaa caactggtag atctgttctg	9660
cggatttcat cgccgatgct tcatctttat agcgccagaa aggaagaatt tcgcttttgt	9720
agggttcaac cagtagcccc ccctgctctc ctcgccaac ctgatacaat tcaggctgct	9780
ggcggagtc aatgctggaa aagtcttgct ggtagttaa aggtttgata gccaatgaaa	9840
atcctcactg cttatataag cacgtgtaaa ggatagttca tcgttaacga ttgggtgggt	9900
tgtgctctta tcggttctac aagagcacca gcttcgtagg cgggataatt gctgtaggcc	9960
ggataaggcg aagctgccat ccggcggtgc aggttgctg atggcgctgc gcttatcagg	10020
cctacatfff tacagttacc acacacgcaa agaagcccgt ccgtcagaac gggcttcttc	10080
acttgtctga tgccctggcag tttatggcgg gcgtgctgcc cgcaccccta cgggccgtta	10140
ctgcgcaacg ttcaaattccg ctccggcggt atttgtctc ctccaggagag tgctcaccgg	10200
cagaccacag ataaagcaaa aggccagtc tttcgactga gccttttgt taatttgatg	10260
cctggcagtt ccctactctc gcatggggag accccacact accatcggcg ctacggcggt	10320
tcacttctga gttcgccatg gggtcaggtg ggaccaccgc gctagtgccg ccaggcaaat	10380
tctgttgccg gaaacgaatc ttttatcttt cgttcccgaa aatccggaat cagtgtgaa	10440
aatcgtctct catccgcaa aacatcttcg gcgttgtaag gttaagcctc acggttcatt	10500
agtaccggtt agctcaacgc atcgtgcgc ttacacacc gccctatcaa cgtcgtcgtc	10560
ttcaacgttc cttcaggaga cctaaagtct cagggagaac tcatctcggg gcaagtttcg	10620
tgcttagatg ctttcagcac ttatctcttc cgcatttagc taccgggcag tgccattggc	10680
atgacaaccc gaacaccagt gatgcgtcca ctccggtcct ctcgtagtag gagcagcccc	10740
cctcagttct ccagcgccca cggcagatag ggaccgaact gtctcacgac gttctaaacc	10800
cagctcgcgt accactttaa atggcgaaca gccataccct tgggacctac ttcagcccca	10860
ggatgtgatg agccgacatc gaggtgcaa acaccgccgt cgatatgaac tcttgggcgg	10920
tatcagcctg ttatccccgg agtacctttt atccgttgag cgatggccct tccattcaga	10980
accaccggat cactatgacc tgctttcgca cctgctcgcg ccgtcacgct cgcagtcaag	11040
ctggcttatg ccattgcact aacctcctga tgtccgacca ggattagcca accttcgtgc	11100
tcctccgtta ctcttttagga ggagaccgcc ccagtcaaac taccaccag aactgtccg	11160
caaccggat cacgggtcca cgttagaaca tcaaacatta aagggtggta tttcaaggtc	11220

ggctccatgc agactggcgt ccacacttca aagcctccca cctatcctac acatcaaggc 11280
tcaatgttca gtgtcaagct atagtaaagg ttcaagggt ctttccgtct tgccgcgggt 11340
aactgcatc ttacagcga gttcaatttc actgagtctc ggggtggagac agcctggcca 11400
tcattacgcc attcgtgcag gtcggaactt acccgacaag gaatttcgct accttaggac 11460
cgttatagtt acggccgccg tttaaccggg cttcgatcag gagcttcgct tgcgctgacc 11520
ccatcaatta accttccggc accgggcagg cgtcacaccg tatacgtcca ctttcgtgtt 11580
tgcacagtgc tgtgttttta ataaacagtt gcagccagct ggtatcttcg gctgacttca 11640
gctccgtgag taaatcactt cacctacgtg tcagcgtgcc ttctcccgaa gttacggcac 11700
cattttgcct agttccttca cccgagttct ctcaagcgcc ttggtattct ctacctgacc 11760
acctgtgtcg gtttggggta cgatttgatg ttacctgatg cttagaggct tttcctggaa 11820
gcagggcatt tgttgcttca gcaccgtagt gcctcgctcg cacgcctcag tgtaaagtg 11880
aaccggattt acctggaaca catacctaca cgcttaaacc gggacaaccg tcgccggcc 11940
aacatagcct tctccgtccc cccttcgcag taacaccaag tacgggaata ttaaccggtt 12000
tcccategat tacgccttcc ggcttcgct taggggtcga ctcacctgc cccgattaac 12060
gttgacagg aacccttggc cttccggcga ggggctttt caccgcttt atcgttactt 12120
atgtcagcat tcgcacttct gatacctcca gcctgcctca cagcacacct tcacaggctt 12180
acagaacgct cccctacca acaacacacg gtgtcgctgc cgcagcttcg gtgcatgggt 12240
tagccccgtt acatcttccg cgcaggccga ctcgaccagt gagctattac gctttcttta 12300
aatgatggct gcttctaagc caacatcctg gctgtctggg ccttcccaca tcgtttccca 12360
cttaaccatg actttgggac cttagctggc ggtctgggtt gtttccctct tcacgacgga 12420
cattagcacc cgccgtgtgt ctcccgatg aacattctcc ggtattcgca gtttgcacg 12480
ggttggtaag ccgggatggc cccctagccg aaacagtgtc ctacccccgg agatgaattc 12540
acgaggcgct acctaaatag ctttcgggga gaaccagcta tctcccggtt tgattggcct 12600
ttacccccca gccacaggtc atccgctaata ttttcaacat tagtcgggtc ggtcctccag 12660
ttagtgttac ccaaccttca acctgcccac ggctagatca ccgggtttcg ggtctatacc 12720
ctgcaactta acgcccgtt aagactcggg ttccctccgg ctcccctata cagttaacct 12780
tgctacagaa tataagtcgc tgaccatta taaaaagg acgcagtcac cccaccacta 12840
agccccctct gcttcttttg aggttgaacg tcgctttcgc tccgttaacc gtctcctcag 12900
caaaggatgc gtatgtggag ttacacctg gcttagtggt ggggctcca ctgcttgtag 12960

gtacacgggtt tcagggttctt ttctactccc ctgcgccggg ttcttttcgc ctttccctca 13020
cgggtactggt tcaactatcgg tcagtcagga gtatttagcc ttggaggatg gtccccccat 13080
attcagacag gataccacgt gtcccgccct actcatcgag ctacacagcat atgcgctttt 13140
gtgtacgggg ctgtcaccct gtatcgcgcg cctttccaga cgcttccact aacacacatg 13200
ctgattcagg ctctgggctc ctccccgttc gctcgccgct actgggggaa tctcggttga 13260
tttcttttcc tcgggggtact tagatgtttc agttcccccg gttcgctca ttaacctatg 13320
gattcagtta atgatagtgt gacgaatcac actgggtttc cccattcggg tatcgccggt 13380
tataacgggt catatcacct taccggcgct tatcgcagat tagcacgccc ttcacgcct 13440
ctgactgcc a gggcatccac cgtgtacgt tagtcgctta acctcacaac ccgaagatgt 13500
ttcttttcgat tcatcatcgt gttgcgaaaa ttgagagac tcacgaacaa ctttcggtgt 13560
tctgtgtttc aattttcagc ttgatccaga tttttaaaga gcaaaacttc gcagtgaacc 13620
ctttcaggta cactctgaag tattttttcg taaacactca cgagatggtg gagctatgcg 13680
ggatcgaacc gcagacctc tgcgtgcaaa gcaggcgctc tccagctga gctatagccc 13740
catcgtgtag tcagaacctc ttaccgata atttttcctg agacaaggcg tggataaacg 13800
aagcatacat cagtatgtga gttatttcac aacgcagtat tcagggaata tctggtaggc 13860
ctgagtggac ttgaaccacc gacctaccc ttatcagggg tgcgctctaa ccacctgagc 13920
tacaagcctg tagagggttt actgctcgtt ttcatcaga caatctgtgt gagcactgca 13980
aagtacgctt cttaaggta aggaggtgat ccaaccgcag gttcccctac ggttaccttg 14040
ttacgacttc accccagtca tgaatcaca agtggtgaag gccctccga aggttaagct 14100
acctacttct ttgcaacc actcccatgg tgtgacgggc ggtgtgtaca aggcccgga 14160
acgtattcac cgtggcatto tgatccacga ttactagcga ttccgacttc atggagtcca 14220
gttgacagact ccaatccgga ctacgacgca ctttatgagg tccgcttgct ctgcgagggt 14280
cgcttctctt tgtatgcgcc attgtagcac gtgtgtagcc ctggtcgtaa gggccatgat 14340
gacttgacgt catccccacc ttctccagt ttatcactgg cagtctctt tgagttcccg 14400
gccggaccgc tggcaacaaa ggataagggt tgcgctcgtt gcgggactta acccaacatt 14460
tcacaacacg agctgacgac agccatgcag cacctgtctc acagttcccg aaggcaccaa 14520
tccatctctg gaaagttctg tggatgtcaa gaccaggtaa ggttcttcgc gttgcatcga 14580
attaaaccac atgctccacc gcttgtgcgg gccccgtca attcatttga gttttaacct 14640
tgcggccgta ttccccaggc ggtctactta acgcgttagc tccggaagcc acgcctcaag 14700

ggcacaacct ccaagtagac atcgtttacg gcgtggacta ccagggtatc taatcctggt 14760
tgctccccac gctttcgcac ctgagcgtca gtctttgtcc agggggccgc cttcgccacc 14820
ggtattcctc cagatctcta cgcatttcac cgctacacct ggaattctac cccctctac 14880
aagactcaag cctgccagtt tcgaatgcag ttcccaggtt gagcccgggg atttcacatc 14940
cgacttgaca gaccgcctgc gtgcgcttta cgcccagtaa ttccgattaa cgcttgccacc 15000
ctccgtatta ccgcggctgc tggcacggag ttagccggtg cttcttctgc gggtaacgtc 15060
aattgctgcg gttattaacc acaacacctt cctccccgct gaaagtactt tacaaccoga 15120
aggccttctt catacacgcg gcatggctgc atcaggcttg cgcccattgt gcaatatcc 15180
ccactgctgc ctcccgtagg agtctggacc gtgtctcagt tccagtgtgg ctggtcatcc 15240
tctcagacca gctagggatc gtgccttgg tgagccgtta cctcaccaac aagctaattc 15300
catctgggca catctgatgg caagaggccc gaagggtccc ctctttggtc ttgcgacgtt 15360
atgcggtatt agccaccgtt tccagtagtt atccccctcc atcaggcagt ttcccagaca 15420
ttactcaccg gtccgccact cgtcagcaaa gcagcaagct gcttctggtt accgttcgac 15480
ttgcatgtgt taggcctgcc gccagcgttc aatctgagcc atgatcaaac tcttcaattt 15540
aaaagtttga tgctcaaaga attaaacttc gtaatgaatt acgtgttcac tcctgagact 15600
tggtattcat ttttctgtctt gcgacgtcaa gaatccgtat cttcgagtgc ccacacagat 15660
tgtctgataa attgttaaag agcagggtgc acgcggcttt cagctcaccg tcgcgaggtg 15720
gcgtatatta cgctttcccg cttcagagtc aagcgtttat tttcgctttt ctcacagact 15780
tcttaacgaa gtcttcctga ccggcgggcc tgtatgcogt tgttccgtgt cagtgggtggc 15840
gcattatagg gagttattag agcctgacaa gacctaaatg caaaaaaag ctcaaccgtt 15900
cacttttcaa acaacatttg aatcaaaagc ctatttttgc ctggttttta acaaaaaacg 15960
agcccgttag ggcccgtttt attcaaattt gtgacttact gcactgccac aatacgatca 16020
tcattggctt caaggcgaat cactttgcca ggaaccagtt caccagacag gatttgctgc 16080
gccagtgggt tttcgatctg ctgttgaata gcacgtttta acggacgcgc cccgtagacc 16140
ggatcgtaac cgttggcgct caacagtttc agcgctcgt cgagatatg gatttcataa 16200
ccacgttctt ccagacgttt gtacagacgc tgcagctgga tctgagcaat agaagcgatg 16260
tgttgctcac ctaacggatg gaataccaca acttcatcaa tacggttgat aaattccgga 16320
cggaagtttt ggctaaccac acccagcacc atctctttca ttcgaccgta atccagttcg 16380
ccaaagcgct cctgaatgag atcggaaccg aggttagaag tcataatgac caccgtatta 16440

cggaagtcca ccgttctccc ctgcccgtca gtcagtcgac cgtcgtccag cacctgcaac 16500
agaatgttga atacatccgg atgcgctttt tccacttcat ccaacaagat gacggaataa 16560
gggcgacggc gcaccgcttc cgtcaaataa ccgccttctt catagccgac atatcctgga 16620
ggcgccccga ccaaacgaga cacggagtgt ttctccataa actcagacat gtcgatacgc 16680
accatcgctg cgtcgtctgtc gaacataaag ttagccagcg ctttacacag ttcggtttta 16740
ccgaccccgg tcggcccaag gaacaggaag gaaccaatcg gacggttcgg atcggacagc 16800
cccgcgcggc tacggcgtat ggcgttcgat actgcttcaa cggcttcatt ctgcccgatc 16860
acacggctgt gtaactcttg ttccatacgc aacagttttt cacgttcgcc ttccagcatt 16920
ctggaaaccg gaataccggt ccagcgcgcc agcacttcgg caatttcgcg atcogttact 16980
ttgttacgta acagacgcat ggttttacct tccgactggg tcgcggttc cagctgtttt 17040
tccagctccg gaattttgcc gtactgcagt tcagacattc gcgcgaggtc gccaacgcga 17100
cgcgcctgct cgatggcgat cttegcctgc tccagctccg ctttaatagt ttgcgtacca 17160
gagagcgacg ctttttcgcg ttccactct tcttctaact cagagtactg acgtctttta 17220
tcgtccagtt cttcattcag catatcgaga cgttttttac tcgcctcgtc agactctttc 17280
atcaacgcct gctgttccag tttagactga ataatgcggc ggtcgagcct gtccagctcc 17340
tccggcttcg agtcaatctg catacgaatg ctggatgccg cttcatcgat gaggtcgata 17400
gctttatccg gtaactgacg gtccggcgata tagcggtagg ataatgttgc cgcgcgcaca 17460
atcgccgggt cagtgatctg cacatggtga tgcagttcat aacgctcttt cagaccacgc 17520
aaaatcgcaa tgggtgtctt caccgacggc tctgccacga acactttctg gaatcgacgt 17580
tccagcgccg cgtctttttc gatgtactga cgatattcgt ccagcgtggg ggcgcgcaca 17640
cagtgcagtt cccacgtgc cagcgccggg ttccagcatgt taccggcac catggcgcca 17700
tcagctttac ctgcgccaac catggtgtgc agctcgtcga taaacaggat gacgttgcc 17760
tcctgttttg cgaggtcgtt cagcacgcct ttccagacgt cttcaaattc gccgcgatat 17820
ttcgccccgg ccaccagcg gcccatatcc agcgccagca cgcgacggc ttccaggcct 17880
tccggtactt caccgttgat aatacgttgc gccagccctt caacaatggc ggttttacct 17940
acgcctggct caccgattaa caccgggttg tttttagtag gacgttgcaa tacctgaatg 18000
gtacggcgaa tttcttcac acgaccaatt accgggtcaa gcttaccttg ttccagccgc 18060
tcggtcagat cgacggtata ttttttcaag gcctgacgtt ggtcttcagc cccttgatcg 18120
ttcacgcttt cacctccgc catctgttca attgcctgag tgatattggc cgtagtcgca 18180

ccggctgatt tcagcagatc gggttaacgtg ccgcgagact caagcgccgc cagaacaaac 18240
agctctgacg aaataaaaatt gtccccccgt ttttgcgcca gcttgctgca aaggttcagt 18300
acgcgtacca gttccgaaga aggctgtacg tcgccgccgg tgccttcac ctgcggtaaa 18360
cggctcagcg cctgatcgat agcagtgcgc aactggccag cattaatgcc ggccggagggt 18420
aataaaggac gtatcgatcc cccttcctgg ttcagcaagg cgctcattaa atgaagaggt 18480
tcgatgaatt ggttgctgtg ccccgagcgc agcgactggg catcggaag agcaagctgg 18540
aatgtgttag taagacgac cagacgcata actcctcca taacagggtca aaattgctac 18600
tgagattaa atgaggtcat ccctcaatta ttcaagggtga atgacctgaa ttatgtgaaa 18660
agaaagttac ccgtaccgga tcgtcttgat tctttagggt atatcagcca aataaaactt 18720
gccatacgac ctgtcgtctt gtgcgcgacg taagagaaga aagtctcact ttcgctaaag 18780
gtgcagcgat ccccgccata gacatgttca acgccagtat tcgccagacg ttggcgtgca 18840
agctgataaa tatccgccag aaatttttcc ccgtgcggca aaaatgcgct atcggttgc 18900
gcatcttttg ctaaaaatgc gtcacgcact tccggcccca cttcaaacgc ggccgggcca 18960
atcgccggac ctaaccaggc gatgatattt tctggttgt cagcaaagca ggtgacagtt 19020
tcctccagta cgccttcaca taatccgcgc cagcccgcat gagccgcgc cacttctgtc 19080
ccctcacggt tacagaatag cacaggcagg cagtctgccg tcattaccgc gcagacgggt 19140
cctggcgat tgctgtaaga cgcacccgca cgtttggagg cataagggtc tccggtgaagc 19200
ctcaatacat ttttaccgtg aacctgttca agccagacag gtttcgaagg cagattgccc 19260
gccgcgaaca gacgcttgcg gttctcttca acatgctccg ggttatcgcc gcaatgcgcg 19320
cccagattca gcgagtcgta aggcgataaa ctcacccac caatacgggt agaactacag 19380
gctgcgacgc ctttcggcag cggccactgc gggacaatca gtgcattcat aaccagtcca 19440
catcatcttt atgatcttcg aaatcggcgc gcacgcacg gataagggtc accatatctt 19500
gtggaatcgg cgcgtgccac tccatttcga taccgatac aggatggtag agacgcagca 19560
tcgttgcatg cagcgcttg cggtcaaact tacgcagcgt ggaaataaat tcttcgatg 19620
cgcctttcgg tggacgtgga cgaccacgt agacctgac gccactaac ggatgcgtaa 19680
tatgcgccat atgcacgcg atctggtgcg tacgcccgg ctccagacgc aacctaagac 19740
gcgtgtgcac acggaaatgt tcataaatgc ggtagtgggt caccgccgggt ttgcccatag 19800
gatgcaccga catatgggta cgtttggtcg ggtgacgact gatgggttca ttcaccgttc 19860
ctcccgccgt catatgtccg atcgcgaccg cttcatattc gcgggtgatc tcgcgcagct 19920

gcaaagactc caccaggcgc gtttgcgccg gaacgggtttt ggccaccacc atcagccccg 19980
tcgtgtcctt atccagacga tgcacaatgc ccgcgcgcgg gacatccgca atcggcggat 20040
aataatgtag caacgcgttc agtaccgtac cgtccgggtt acccgcgcca ggatgtacca 20100
ccagatcgcg tggtttggtg ataaccagaa tatcgtcatc ttcataaaca atatctaacg 20160
ggatatcctg cgcttcaaaa cgaatctctt cgtcgatctc cgcatacaata gccaccgcgt 20220
cgccgcctaa cactttttct tttggcttat cgcaaagttg accattgacc aacacgcgt 20280
gattcaaaat ccattctttt atacgcgaac gtgaataatc cgggaacatt tcggccaaag 20340
cctgatctaa gcgttgaccg agttggtttt cggagaccgt tgcggtgagt tgtactcggt 20400
gtgccatata cagcttcttc gtttaacgtt gggttttacg gctttgccgt ttaatatagt 20460
gtgctattgt agctggtctt aaccgggagc aggaacagag aatctcccgt aaaacatttt 20520
gaggaaagtc aaaacgtcat gacgcgcgtg aaatatctgg tggcagcagc cacgttgagc 20580
ctgtttctgg cgggttgctc gggttcaaaag gaagagggtc ccgataatcc gccgaatgaa 20640
atctacgca ctgctcagca aaagctgcag gacggtaact ggaaacaggc aataacgcaa 20700
ttggaagcgt tagataatcg ttatccattc ggaccgtatt ctacgcaggt gcagttggat 20760
cttatctacg cctattacaa aaacgcgat ttgccgctag cgcaggccgc catcgatcgt 20820
tttatgcgtc ttaatccaac gcaccctaatt attgactatg tcatgtacat gcgcggcctg 20880
acgaacatgg cgctggatga tagcgtgctg cagggtttct ttggcgtcga tcgcagcgat 20940
cgcgatccgc aacatgcgcg ggccggcgttc aatgactttt cgaaactggt acgcagctat 21000
cctaatagcc agtacaccac cgacgccact aagcgtctgg tattcctgaa agaccgtctg 21060
gcgaaatatg aatattccgt cgcagagtac tataccgcgc gcggcgcatg ggttgccgtc 21120
gtaaaccggg tagaaggat gctacgcaat tatcctgata cgcaggccac gcgcgatgcg 21180
ttgccgctga tggaaaacgc ctatcgtcag atgcagctga atgcgcaggc tgacaaagtc 21240
gcgaaaatta ttgccgctaa cagcaaaaac aactgaagca ataccaacaa gcaaaacggc 21300
agccttcggg ctgccgtttt tttattcgat atctgatgca acagaaatga tttcactgca 21360
acgcattccag tcaaatatgg cctgctttca gccattcctc aagtaaaaga tcgcttcttc 21420
ctgcgatgcc tcacaaaaag ttgccttgca caaaaagtga caaaataatg tgatttacat 21480
cacacatttt gacattaaga acggtatgct ggaatcacca agacgggaaa gacaagaggt 21540
aaaatttatg acaatgaaca ttaccagtaa acaaatggaa attactccgg caatccgcca 21600
acatgtcgca gaccgtctcg ccaaactgga aaaatggcaa actcacctga ttaatcctca 21660

-29-

tatcattctg tctaaagagc cacagggctt tattgctgac gccaccatta atacaccgaa 21720
cggacatctg gtgccagcg caaaacacga agatatgtac accgctatta atgaattgat 21780
caacaagctg gaacggcagc tcaataaagt gcagcacaaa ggccaagccc gtcgtgccac 21840
cgcatcggtg aaagatgcca gcttcgtcga agcagaagaa gagtagtccc ttacattgag 21900
tgtatcgcca acgcgccttc gggcgcgctt tttgttgaca ggattaaaac agtacgggta 21960
ctgtacttac gtacacaaag gaaacagtta tgaagctcac ccggtttttc ttcgcattct 22020
tttttatctt cccctgaccg ggaggcgctt cgtcatgtga taaagaatgc gaagacgaac 22080
aagaaggcct cccccaccg gaggcctttt ttattgataa caaaaaaggc aacactatga 22140
catcggaanaa ccattactg gcgctgcgag ataaaatcag cgcttttagac gaagagttaac 22200
tggccttact ggcaaaacga cgcgcgctgg cgattgaagt gggacaagca aaactactgt 22260
cgcatcgtcc ggttcgggat atcgatcgtg aacgcgcgct gctggacaga ctcatccatc 22320
tcggtaaagc ccaccatctc gacgcacact acattaccog tctgttccag cttatcattg 22380
aagactccgt gcttactcag caggcgctgc tgcaacaaca tctgaataat actcaccctc 22440
attcggcacg tattgcgctt cttggggccga aaggctccta ttctcatctc gcggcgcgcc 22500
agtatgctgc acgccatttt gagcaattta ttgagagcgg ttgcgcaaaa ttcaccgata 22560
tttttcatca ggtcgaaacc ggccaggccg attacgcctg ggttcgata gagaacacca 22620
actccggcgc tatcaacgat gtgtacgact tattgcaaca caccagtctg tcgattgtcg 22680
gtgagatgac cgtcactatc gatcactgcg tgctgggttc cggcgctacg gatctgaata 22740
ccatcgaaac ggtgtacagc catccgcagc cgtttcagca gtgcagtaaa tttttgagcc 22800
gctatccgca ctggaaaatc gactataccg agagtacgtc ggcaagcgatg gaaaaagtcg 22860
cgaggcaaaa ctctccgcgc gtccggcgcc tcggcagcga ggcaaggcgc atgttgacag 22920
gtttacaggt gctggaacgc atcgccgcaa accagacaca gaatatcacc cgctttctgg 22980
tactggcgcg caaagccatc aacgtttccg atcaggttcc ggcaaaaacc actctgttaa 23040
tcgccaccgg gcagcaagct ggcgcgctgg tcgaagcgct gctgggtgctg cgtaaccaca 23100
atctcatcat gacgaaactg gagtcgcgcc ccattcacgg caatccgtgg gaagagatgt 23160
tttatctoga tattcaggcg aacctggagt cgcaggtaat gcaaagcgcg ctaaaagagc 23220
tgggcgagat cacgcgctca atgaaagtgc ttggctgcta tcccagcgaa aacgtcgtgc 23280
cggtagaacc tgcctgacgt tcaataaaac ggcttttctt catccctgcg acggctacct 23340
gcagggtgaa gatggcgccg gagagcggat aatccgccac ttctgagca gacatatttt 23400

ctctggtagt tgtaataaac agcgttttca tatctgcgcc gccaaagcaa accatcgctcg 23460
gacaacgtac cggcaaccgg tactcttcca gctgctctcc ttgcggtgag aaacgcgcca 23520
cgcgccagcc gtcaaacatc gcgctccagt agcacccttc gctatccatc gccgcgcgt 23580
cggggaagtcc ttctccttcg ccaaaatggc gaaaaagtcc acgcttgccc ggttcgccat 23640
gcttatcaag taacgtgcgg tatatcacgc cattcggcgt atcggaagta tacatccact 23700
ggttgtccgg gctgaacgcc aggcggttgt gtccctggat accgcactgg atcacttttg 23760
ccgtcaggtc atgatcgatc cgcacagca acgcgccatt atagtcaccc ggcgcccaga 23820
acgttcgggc ataaaaacgg ccatcgccat cagtgcgcgc atcggtgaaa cgcgccagtt 23880
tcgtattaga gggattgtcg caaaccttac gctgcaataa tccattttta tcggccagcc 23940
aaatagcatg acgcatggcc acaataaatc cgccctgctc acgcaaggca aaacagccta 24000
cctcttccgg aaacgccagc acgctatgcg tcccactcgc cggatggtaa cgatagatct 24060
cctgttccag gatatcagtc caatacagcg cgctttcatc ctgcctccat gtggggcatt 24120
ctggtaaattg tccgacataa tcaataaaaa ggtgcggcgt agtcataacg gttccttaaa 24180
cgaaaaaagc cagcaaagct ggcttttagt atagatgtca tcattatggc cggctgtcat 24240
tcgcctgacg taataacaca cggctttcat tctggaagcg tctggcataa tcgccaaacc 24300
agtgttcaac ttgcgaaaa ctgtcgataa aagcctgctt atcacctgt tccagtaacc 24360
cgatcgatc gccaaaacgt ttatagtaac gcttgataag cgccagattg cgctccgacg 24420
acataataat gtctgcatac agctgcgggt cctgggcgaa cagacgccc accatcgcca 24480
gctccagtcg ataaatcggc gatgatagcg ccagaagctg ctcaagctgg acgttctctt 24540
ccgccagatg cagcccataa gcgaaggtag caaagtggcg cagcgccctgg ataaaagcca 24600
tgttctgac gtgctcgaca gcgctaattc ggtgcaaccg cgcgccccac acctggattt 24660
gctcaaggaa cactgatac gcttccggtt gacgccatc acaccagacc accacctgct 24720
tcgccaggct cccgctgtcc gggccaaaca tcgggtgcaa gccagcacg gggccatcat 24780
gggcgcgcaa cattgcctgt aacggaccgc ttttcaccga tgccagatcg accagaatac 24840
agtgcgacgg caggggcggc agttgcgcta tgacctgtc agtaacatga atcggcacgc 24900
tgacgatcac cattccggca tcggcgacaa tgtccctggc gcgcggccag tctgttggt 24960
ccagaatacg gacctgatag cccgacagcg tgagcathtt ttcaaacaga cgcgccatct 25020
gtccgcgcgc gccacaatg acgaccggac gcagagaagg acaaagcgtt ttgaaccctt 25080
tatcattttc gctggagtaa gattcacgca ttaccggcg caggacatct tcaatgagat 25140

cgggcggggac accgatcgct tctgcttccg cccgtcgtga agccagcata gaggcctcac 25200
gctccggcac gtaaataaggc aggccaaaac ggcttttcac ctcgccgact ttggcaacca 25260
gttccaggcg cttagccagt aaattcaaca acgctttatc gacatcatct atttgatcgc 25320
gtaacgcggc caattcagca accataacaa cctcttatgc gacgcgcacc gccagctggc 25380
cgctcaaate tttatgaatt tcacgtaaca gggcatcggt catctcccag ctaatacaag 25440
catcggtgac ggaaacgcc a tacttcattt cgctgcgcgg ctgttcggaa gactgattac 25500
cctcatgaat attactttca atcattaagc caatgattga acgattgcc tctttaatct 25560
gcgcaaccac agattcggca acggctggct ggcgggcgata atctttattg gagttacat 25620
gactgcaate taccatcagc gaaggacgta gccccgcctg ttccatctct ttttcacact 25680
gagcgacate tgcogggcta tagtttggcg ctttgccgcc acgcagaate acatggccat 25740
gcggatttcc ctgggtttgc aataacgcaa cctgaccggc ctggttaatg ccaacaaaac 25800
gatgaggttg cgcagcggcg cgcattggct taatcgctgt cgcaggctg ccatccgtgc 25860
cgtttttaaa gccgaccggc atagaaagac cagacgccat ttgcgcgttg gtttgcgatt 25920
cggttggtgc cgcgcctatc gccgaccagc taaacagatc gccagggtat tgcgggctgt 25980
tcggatccaa cgcttcggct gccaatggca accccatatt caccagttcc accagtagct 26040
gacgcgctat tttcaaccg gcttccacat caaatgagc atccatgtga ggatcgtaa 26100
tcagcccttt ccagccgacg gtagtccgcg gcttttcaaa atagacgcgc attaccagat 26160
agaggctate gctgacctct gcggcaaggc ctttaaatec acgggcatat tccagagcgg 26220
tttcaggatc gtgaatagaa caaggaccgc ataccaccaa cagacgcgga tcgcgcccgg 26280
caataatgtc agaaatgatt ccccgggact gcgctatctg cgcttcctgc gccaggctca 26340
acggaaaggc cgctttaagc tgctccggcg tcattaatac ctgttcacgc gtgatacgta 26400
cgttattcag cgcgtctttt tgcattgatg cgtactgtc ttttcttggt tgcgatagtt 26460
gatcctccac gaggatgttt aaaccatacc acaaaaagta aagatttcaa tccatattac 26520
gtaaaaataa ctttacatag tgctaaatcg tcgattaaac ctctcaattt cgtatcaaaa 26580
actttacaca acaagtgaat tattttatct ccagcttcag aaaagcggta aaatgagcga 26640
tgctcgctat tttttgatta tttttctcc gcacgcataa ttttactttc tgatataggg 26700
tgattaatac cattatcaca agaatttaat atcagggatg ccacttaaata tattcatatt 26760
atcaataaga cataatgacg atatggcaaa ataatgttat tttgctacaa acaatcacgg 26820
atgtatttta atgttttacg actgaagatg gtggggactt gttaatgcgt ttttctcacc 26880

gattttatcct tctgtttatcg ctattattag caagcttgcc tctgtatgct caatgtgtca 26940
 cggaagaaga gaaatccgta cgcgccattg tctcoggtat cgtcagttat acacactggc 27000
 cagcgttata cggggccgcca aggctatgca ttttttcata tgcgcgtttt gtcagggtac 27060
 ttagcgaaga ggctaactgg gctttccctt atcaaccgct tgtcatccgt accacacaag 27120
 aagccctgag cggcccgctgt gatgggtttt actttggcaa tgaatcgcca gcttatcagg 27180
 tggagttaac gcgtcattat ccagttaatg ccttgttatt aattgccgag caaaataccg 27240
 aatgtattat tggcagcgca ttttgtctga tcattaacaa tgatgaagtc aaattttccg 27300
 tcaacctgga ctccctctcg catagcggcg tgagagtga tccagaagta ttaatgcttg 27360
 cacggaatca aaagcatgaa taaggaattt tctctgtcca gaccaacatt taaacgcaca 27420
 ctacggcgga ttagtataat cagcgtgctg cttacaatga cattgatctg gctattaatt 27480
 tgcgttgctg ctgtcccttac gctcaaacag tatgcgcaaa agaatctcga tttgaccgcc 27540
 gccacaatgg cccatagcct tgaagcggca ctgggtattt ccgatagcgc ggccgcagcg 27600
 gaaacgctcg ccacactggg acgccaggga caattttcag cggcggaggt ccgcgataaa 27660
 aatggccgta ctatcgctc atggcgatat gatgcgcgag ccgcagacga taagctcatc 27720
 ggcttaatta gccactggct ttttccattg ccggtatcgc aaccgctctg gcacaacggc 27780
 agggctatcg gcgaagtacg gcttgtcgcc cgcgacagcc ttatttgtca ttttatctgg 27840
 ctatcgctgg cagtgtgac aggatgtatt ctgctagcat ccggcattgc cctgctactc 27900
 acgcgttatt tacacaatgg cgttgtggat gcgctacaaa atattactga aattgtacac 27960
 gacgttcgca ctaaccgaaa tttttcacgc cgggtacctg atgagcgtat tgcggaattt 28020
 cacctgtttg cgcaggattt caatagcctt ctggatgaga tggaagaatg gcagctacgg 28080
 cttcaggcta a aaatgcaca attactacgt accgcgttgc acgatccgct gacggggctt 28140
 gccaatcgcg cggcatttcg cagctgtatt aacgcgctga tgaaggacaa ttccgctcgt 28200
 agcagttcgg cattgttatt tctggatggc gataacttta aatatattaa tgatacctgg 28260
 ggacatgcgg caggcgaccg cgtacttata gaggttgcca aaagattagc ggaattcgg 28320
 ggtagccgtt atcagactta ccgactcggc ggcgatgaat ttgcgatggg gctttacgg 28380
 gtacattcgg agtatgaagt acaacgtatt tgcgcagcac tatccaggc gtttaatcga 28440
 ctttttgaac tgcataacgg ccagcgaata acgatgaccc tgagtattgg ctttgcgctg 28500
 acatgggaac atgccactgc cgaaaaacta caagaactgg ccgatcgaat tatgtatcag 28560
 gctaaacacc ggcgtgcaga acgctcgcta aactaaggaa cgggccaggc cgtttctgac 28620

-33-

tcagcggttga	taccacagac	ccagcttaat	catgcaaccg	tctatggcgt	ggagcaaccc	28680
ataaaaaaag	gggccagcgt	aatgccagcc	ccttcttttc	tacaagcttt	cggatgttgc	28740
gaaagcgcgt	tcttagttaa	gacgctcttt	gatacgagct	gctttaccag	tacgctcacg	28800
caggtagtac	agtttagctt	tacgaacagc	accacgacgt	ttaacagcaa	tgctgtcaac	28860
taccggagag	tgagtctgga	agacacgctc	aacgccttcg	ccgttgga	ttttacgaac	28920
agtgaatgca	gagtgcagac	cgcggttacg	aatagcgata	accacgccct	cgaatgcctg	28980
cagacgtttc	ttggtacctt	caacaaccca	tactttcact	tccacggtat	cgcccggacg	29040
gaaggaaggt	acgttctgct	tcatctgctc	ttgttcaagt	tgcttaataa	tgttgctcat	29100
aatttaatct	cttatcctgg	gtaaactgat	attcgggggc	ctatgccatc	ccatcatggt	29160
tatgctgctg	ttgtgcgtgt	tctgttttga	actccgccag	caaccttgct	tgctcttcag	29220
tcagagccag	gttttccaga	agttcaggtc	ttctaagcca	ggttcggccc	agtgactggt	29280
tcaaacgcca	gogacgtatc	tcagcatggt	ttcccgacag	caatactggc	ggtacttcca	29340
tccctctaa	cacttcaggg	cgcgatatagt	gcggacaatc	cagcaaccca	tcagcaaacg	29400
aatcttcgat	tgctgatgcc	tcatgcccc	gaacccccgg	tataaacggg	gogacggagt	29460
caatcagcgt	cattgccggt	agttcgccac	cgctgagaac	gtaatcgcca	attgaccatt	29520
cttcgtcaat	ttcggcctga	attacgcgct	catctacgcc	ttcgtagcga	ccacacacca	29580
gaatgagttt	ctgattcgtg	gccagctcgc	taacgcccgc	ttgatcaagc	ttgcgtccct	29640
gaggcgacag	ataaatcact	ttagcgcctt	cacctgcgcg	ggcttttgct	gcatgaatgg	29700
cgtcccgcaa	gggttgacc	atcattaaca	tccccggtcc	gccgccgtaa	ggacggtcgt	29760
ccacggtagc	gtgccggtca	tgcgcggaagt	cgcgaggact	ccagctttgg	atgttcagca	29820
ggcctttttt	tactgcccg	ccagttaccc	cgtaatcggt	aattgcgctg	aacatttcag	29880
gaaacaggct	aacgatgcca	ataaacacaa	gccaatcccc	ataacgccat	ttattaccgt	29940
ttatccggtg	gtttaaaaac	caggatccca	gtctacttcg	atagtacgag	tagcgagatc	30000
gactttcttg	ataacctgcc	catcgaggaa	cggtactagt	cgttccttga	taccaaattgc	30060
atctttcagg	ttcgccctaa	tgacgagaac	gtcattcgac	ccggtttcca	tcatgtcgat	30120
aactttaccg	agatcgtagc	cttcagcggt	gactacctgg	caacccatca	ggtctttcca	30180
gtagtagtct	ccctcctcaa	gcgcaggaag	ttgcgaggaa	tccacgacaa	tttcgcaatt	30240
ggtcagaaga	ttcgcgcat	ctcgatcgtc	aacgcctttc	agcttgatga	tcagatcctg	30300
attgtggtgc	ttccagcttt	ccagctgtac	ctgctgccac	tgacccgcct	tctggataaa	30360

ccagggtga tagtcaaaaa tgctttcggc gtcttcagtg gaggaaaaca ctctgagcca 30420
 accacggata ccgtatgaag aaccattttt cccagtaga accggttcag cgggtacttg 30480
 tgcggcgagt tgcttgctca tcatgaccac cgtgacagat taagctgctt tttttacttc 30540
 tttgatcagc gccgcaacgc gatcggaaat ggttgcgccc tggccaaccc agtgagcgat 30600
 gcgatccaga tccaggcggg tgctttcttc tttttcgcta gcgattgggt tgaagaaacc 30660
 aacgcgctca atgaagcgac cgttgcggtc attacggctg tcggtgacaa caacctggta 30720
 gaacggacgc ttttttagcg cgtgacgagc taaacgaata gttaccataa catcctcttg 30780
 tgtgaataaaa acaaccgggc ctcatcgagg aacggagccc ggcgtcatat taaaagcccg 30840
 aaaattttac tgattttctg ggaaaatgca atcagcatct tgctactgaa caggaacaa 30900
 gggataaaaag gcgtatatcg gtgcagccag tttagctccg gcgtgcgcgc agaaagcgga 30960
 gcgtacacgc agtacgtgag catttcgagc acaccccggg gctaaaatgg caaacaagat 31020
 agccttatac ccttgtttta gcggccacgc agtacgtgag gatggctagc acaccccggt 31080
 gccgaaatag caagtgagcc tagccgggaa attagcggcc tggaaaacca ggcggcatca 31140
 tccccttcat actccgcac atcttcgcca tcccgccctt ctcatcttctt tcatcatgc 31200
 gctgcatgtc gtcgaaactgt ttcagaaggc ggttaacgtc ctgcacctgc atcccacagc 31260
 cctgcgcgat acgacgcttg cgggaacctt taatgatttc cggcttcgcg cgttctttca 31320
 gcgtcatcga attgatgatc gcctccatac gcaccagcac cttatcatcc atctgcgatt 31380
 taacgttgtc cggaatctgc cccatgcccg gtaatttgcc catcagactg gccataccgc 31440
 ccatgttttt catctgtttg agctgctcca ggaagtcgtt caggtcgaaa ccgtcgccctt 31500
 tcttcagttt ggtcgccagc ttctcagcct gtgcgcggtc aactttgctt tcgatatctt 31560
 cgataagaga cagtacgtcg cccatgcoga gaatacgca ggcgatacga tccgggtgga 31620
 acgggtccag cgcgtcggtt ttctcgcca caccgaggaa tttaatcggc ttgccggtga 31680
 tatgacgaat agagagcgcc gcaccgccac gcgcatcacc atcaactttg gtcagcacca 31740
 caccggttaa cggcagcgct tcgttaaagg cttttgcggt attcgccgca tctgaccgg 31800
 tcatcgcatc gacgacaaac agcgtttcta ctggcttgat agaagcgtgg acctgtttga 31860
 tttcgtccat catcgcttcg tcaacgtgca gacgaccggc ggtatccacc agcagcacgt 31920
 cgtagaattt gagcttcgct tctttcagcg cggcgttgac gatatacaacc gggttctggc 31980
 cgacatcaga cgggaagaaa tccacgcaa cctgctcagc cagcgtttcg agctgtttga 32040
 tcgccgccgg gcgatagacg tcggcagaga cgaccagcac tttcttcttg tgcttctcgc 32100

gcaagaatTT acccaactta cgcacgctgg tggTTTTacc cgcCCcctgc agaccgcga 32160
 tcaatactac ggcTggcggc tgcgcagcca gattcagggt ctggTTTTct tcgcccattg 32220
 ccgcaaccag ttgcTtacgg acaatcttga cgaactcctg ccctgggggc aggcttttgt 32280
 taacttcatg accaaccgct ttctctttta cgcgattgat gaactcacgc actaccggca 32340
 gcgcaacgTc agcctccagc agcgccatgc gcacttcgcg cagcgtctct ttaacgttgt 32400
 cttcagtaag gcgcCcacgg ccactgatat tgcgcagcgt gcgcgacaaa cgatcgggta 32460
 aattatcaaa cattgtctct cgcctggggT ggaaacgggt ggtcgccgca gcgacacagt 32520
 tacagaatTT cgcacagta taccatgaag ccgtctttgt tgttatgcaa cggttggagc 32580
 tgcggtcacg taacgctata ctgcttctct ttctcactgg tcaactgtcg acacaactat 32640
 gcccgTTTT gctttacttg cccttgTgc cTactcctc agcctcgcgc tgatcgttcc 32700
 cggactgttg caaaaaaaca gcggctggcg gcgtatggct attctttctg cggTcatcgc 32760
 gctggtgtgc catgctgtcg cgctggaatc gcgtattctg cccggcggcg acagtggaca 32820
 aaacctgagc ctgctgaatg tcggttcgct ggTcagcctg atgatctgca cggTgatgac 32880
 cattgtcgcg tcgcgtaatc gcggctggct acttctgccc attgtctatg cttttgcgct 32940
 gattaacctg gccttcgcca cgTtcatgcc taatgaatat attacgcac tggaagcgac 33000
 ccaggcatg atggtgcaca tcggTctgtc gcttttctct tacgcgacgc tgataatcgc 33060
 cgcgctgtat gcgctacaac tggcgtggat cgactatcag ttgaagaaca aaaagctggc 33120
 gtttagtaat gaaatgcgc cattgatgag cattgagcgc aaaatgtttc atatcacgca 33180
 gattggcgtc gtactgctga cccttactct gtgtaccggc ctgttttaca tgcataacct 33240
 gttcagtact gaaaatattg ataaagccgt gctctctatc gtggcatggT ttgtctatat 33300
 cgTtctgctg tgggggcatt accatgaagg ctggcggggT cgtcgggtcg tgtggtttaa 33360
 cgtcgaggc gcgggtattc tgacgctggc ctattttggT agccgcatat tacagcaatt 33420
 tgtaagctaa gctt ttaaag gagtttcccc tggaacacat ctccaccacc acgctgatta 33480
 tcatattaat catcatggTg gtcatctcg cctatttttc cggttccgaa actggaatga 33540
 tgacgctaaa ccgttacgt ttacgccata tggcgaagca aggtaatcgc tcggcaaaac 33600
 gggtagaaaa attactgct aaacccgacc gactgataag cctggTgctg attggcaata 33660
 acctggTcaa cattcttgcc tcggcgctcg gcacgattgt gggTatgcg ctttacggcg 33720
 atgccggcgt ggctatcgcc accggggTac tgacgtttgt cgtgttagtt tttgcgaag 33780
 tctgcccaa aactatcgcc gcgctctatc cggaaaaagt ggcctatccc agcagcttcc 33840

tgctggcgcc gttacagata ctgatgatgc cgctggtgtg gttacttaac accatcaccc 33900
gcctgctgat gcgtctgatg ggaattaaaa cggacatcgt ggtcagcggg tcgttaagca 33960
aagaggaatt acgcactatc gtgcatgaat cccgttcgca aatctctcgc cgcaatcagg 34020
atatgctgct gtcggttctc gatctggaag aggtcagcgt ggatgacatc atggtgcccgc 34080
gtaatgaaat tatcgggatc gatatcaatg acgactggaa gtctatcgag cggcagctca 34140
cccactcgcc gcacggacgc attgtgctct atcgcgattc gctggatgac gccatcagta 34200
tgctgcgcggt gcgtgaagcc tggcggttaa tggccgagaa aaaagagttc accaaagaga 34260
tgatgctgcg cgccgccgat gaaatctatt acgtcccgga aggtacgccg ctcagtagcg 34320
aactgattaa atttcagcgc aataaaaaga aagtcggact ggtcgtcaac gaatatggcg 34380
atatccaggg gctggtcacc gtggaagata ttctcgagga gatcgttggc gacttcacca 34440
catcgatgtc gccgacactg gcggaagagg tcacgccgca aaacgacggt tcggtcatta 34500
ttgacggtag cgccaacgtc cgggaaatca ataaagcgtt taactggcac ctgccggaag 34560
atgacgcgcg caccggtcaac ggggtgattc tggaggcgct ggaggaaatt ccggttgctg 34620
gcacgcgcgt gcgcattgag cagtacgata tcgatattct cgatgtacag gaaaatatga 34680
ttaagcagggt aaagggttgta ccggtaaaac cgctgcgcga gagtgtggcg gagtaacaca 34740
atggcgaact ccggttcgcc ttttttatcg ccgtctttta agattccatc aattcctgcc 34800
atttacttaa caatgcaata atgtcttttc aggcattcag aaaggatatt gatgttatgt 34860
cagaagatta tgtaattgaa tgggataaga attttgcaga cgacctcaac gtcgtcgcca 34920
acgttttttt atcgcacaaac ccaaccttat ggccactat tttctctcaa ctttcgacgc 34980
aacctgaaat ctttgaagac gaagatgaag acgaatatgg gttgcaagac gtcctggatt 35040
gtagcggtag cgatctcgga aataacgagc tggcacaggc atttttacaa gttctacgcg 35100
gcgaaggatt tattcacctc gttgactgga aaggatgaaga tgaagaaggc gaactggcta 35160
attttgccgc agatcgcttt tatgaactca caaaaaacct gacggattct gaggaattaa 35220
gaaatcttct tgtcgaaata acccaagagg atgaaatctc cgatgtctgt gaagccgggg 35280
accgttacct tgacgagatc tttgaacgca tccagaccga actcaataag aggggcttcc 35340
agatttttga tctgaatgaa ggatctgaca tctataatgt ggtcgttctg ccaatgagcg 35400
aatataaaaa atagaggatt tcaacacgcc gtggctggaa gtgcaggatt ttttaagcta 35460
aaaaaatggc cgactttaca tcggccatta gacttttact tcgccttcgc tacagtcacc 35520
atcgccgcgc gaatggtagc accgttcagc gtgtagcctt tctgcataat acccagcaca 35580

ttgcctgccg gaacctcttc cgattccacc atcgcaatcg cctgatgcac gticgggtcc 35640
agcggcacgt tggctcagc aatcacttcc acgccgaact tacgcaccac atccagcata 35700
gacttcagcg tcagctcaat cccttcgacc attgccgcca tatccggatt ggctttgtct 35760
gcgaattcca gcgcgcgac caggctatcg attaccggca gcaattcgtt gacgaacttc 35820
tcgagagcga atttatgcgc tttttcgata tctgttcag tacggcggcg caggttttcc 35880
atttccgctt tgatacgcaa cacggtgtcg cgttcgcgag tctgggcttc ggcaagctga 35940
acttcagat tcgaatttt ttcatcgcgc ggatccacct gctcagcaga atcgtttggg 36000
tcaactgcct caacctcttc gtgctgatcc atgataattt cttccggggc ttgccctca 36060
ggcgttttct gttcttta ct actcatgaat ttctcgcgt ttttttcgca ttcatctcgc 36120
taacttcgct tattatgggg atcagattca gggtttcaag ggaagtactc acattgtcat 36180
caatcttcgc tacaaggacc tcagaaaaat gaataatcat ttcaagtga tcggcattgt 36240
ggggcatccg cgtcatccca ccgcactcac gacacatgaa atgctctacc gttggctatg 36300
cgatcagggt tatgaggtca ttgtggagca acaaatcgcc cacgaattac agctaaaaaa 36360
tgtgccaacc ggcacgctgg cggaaattgg tcaacaggcg gatctggcg tagttgtggg 36420
cggcgacggc aatatgcttg gcgcagcgcg tacgctggcg cgttatgaca tcaatgtgat 36480
tggcattaac cgcggtaatc ttggcttctt gaccgatctc gatccggaca acgccttgca 36540
acaattatcg gatgtgctgg aaggacgcta tatctccgaa aaacgttttc tgctggaagc 36600
gcaggtctgc caacaggacc gccagaagcg tatcagcaca gccattaatg aagtgggtgt 36660
gcatccggga aaagtggcgc atatgatcga attcgagggt tatattgatg aaaccttcgc 36720
tttttcacag cgatctgatg gtctgatcat ttctacgcg accggctcca ccgcctattc 36780
gctctccgca ggcgcccta ttctgacccc ttcactggat gccatcacc tggtgccgat 36840
gttcccgcat acctgtcgg cgcgccggtt agtcattaac agcagtagca cgattcgtct 36900
gcgtttttcg catcgccgta gcgatctgga aattagctgc gacagtcaga tagcgtgcc 36960
tattcaggaa ggagaagatg tgctgattcg ccgctgcgac taccatctca acctgatata 37020
tcccaaagac tatagctatt tcaatacatt aagcacaaaa ctcggtggt caaaaaaatt 37080
attctaattt tacgttagcc tctttactgt ataaaaaacc agtttatact gtatttaatt 37140
acagtcatgg ttttcat ac aggaaaacag ctatgttggc gcaactgacc atcagcaatt 37200
ttgctatcgt tcgtgagctt gagatcgatt ttcagagcgg aatgaccgtc attactggtg 37260
aaaccggcgc gggtaaat ct attgcgattg atgcctggg tctgtgtctg ggcggtcgcg 37320

ctgaggccga tatggtccgt accggagcga cccgcgcga tttgtgtgcc cgctttgcgc 37380
tgaaagacac gcctgcggca ttgcgctggc tggaagaaaa ccagcttgaa gaaggtcgcg 37440
aatgcttact tcgccgcgtt atcagcagcg atggccgctc acggggcttt attaacggca 37500
ccgctgtgcc cctatctcaa ttgcgcgagc tcggtcagtt gctgattcaa attcatggtc 37560
aacatacgca ccagcagctg accaaacccg aacagcaaaa atcgctgctg gatagctatg 37620
ccaacgaagc cgcttttagcg cagcagatgg ctgcccacta ccaattatgg catcaaagct 37680
gccgcgatct cgcccatcac cagcaacaaa gtcaggaacg cgccgcgcgc gcggaactgc 37740
tgcaatatca gttaaagag ttgaacgact ttaatccgca ggccggcgaa ttcgagcaaa 37800
ttgacgaaga gtacaaacgg ctggccaaca gggggcagtt gcttacgacc agccagaacg 37860
ctctggcgct actcgcgac ggcgaagacg ttaacctgca aagccagtta tatagcgcaa 37920
aacaactggg tagcgagctg gtgggtatgg acagcaagct ttccggcatc ctggatatgc 37980
tggaagaagc cactatccaa ctcaccgaag ccagcgatga attacgccac tattgcgagc 38040
gtctggattt agaccccaat cgctgtttg agcttgaaca gcgcatcgct aaacaaattt 38100
cgctggcgcg aaaacatcac gtcagcccg ggcgctgcc gcagctttat cagtcactgc 38160
tcgaagaaca gcagcagctc gacgatcagg ccgattcgct ggaaacgctg acgctggcgg 38220
ttaataagca tcaccaacaa gcgctggaaa cggcgcaagc gctgcatcaa cagcgtcagt 38280
tttacgccca ggagctgggg cagttgatca ctgaaagtat gcatttactt tcgatgccgc 38340
acggtctgtt tactatcgac gtgaaatttg atgagcatca tctgagcaac gacggcgccg 38400
atcgcggtga gtttaaagtg acgacaaacc cgggtcagcc gctgcagcct atcgctaaag 38460
tcggtctgtg cgggtgaactg tcgcgcattg cgctggctat tcaggtgatt accgcgcgca 38520
aatggaaac gccggcgcta atttttgacg aggttgatgt tggcatcagc ggcccaaccg 38580
ccgccgtggg cggtaaactc ctgcgtcagc ttggcgaatc cactcaggtg atgtgcgtca 38640
ctcacctacc acaggtagcc ggggtgcggtc accagcactt ctttgtcagt aaagaaacag 38700
acggggcaat gaccgaaaac catatgcaac ctttggataa acgtgcgcgt ttacaggaac 38760
tgccccgcct gttgggagga agtgaagtta cgcgtaatac gctggcaaac gcaaaagaac 38820
tgctggcggc gtaaaacttt ttatctcccg aaggtctgag ttcacaacaa aaacgccgta 38880
agacccgaca gcaaaagggt ttaaagtgat gaaaggctta ttatcatcgg catattaata 38940
tgagccacgt actgctcagg cccgaaaagg aaccaatca ctatgcgctg taaaacgctg 39000
actgctgccg cagcagtact cctgatgttg accgcaggct gttccactct ggagcgagtg 39060

gtttaccgac ctgacatcaa tcaggggaac tatcttacac ctacggatgt cgccaaagtg 39120
cgtgttggta tgacgcaaca acaggttgcg tatgcttttag gcacgccgat gatgaccgat 39180
ccttttggta cgaacacctg gttttatgtc ttccgccagc agccaggaca tgagaacgtg 39240
acgcagcaga ctctgacgct cacctttaac agcagcgcg tgtaaaccaa tattgataac 39300
aaaccggcgt tgacgaagta attttgtgat accgcctgat gaggttacgt tcatcaggcc 39360
tgcaaacctc tcccccgcca tttggtacga atttgcctga tggcgctacg tttatctggc 39420
ttacaggcac goctgtgctt caggtgtggt acggctttca caccgttatc cggcaaaaga 39480
ggctaattat ctgccagccg atttttcggc acgctggcgg cgtaatgctt ttggatcggc 39540
gattaagggg cggtaaattt caaccgcgtc gccatcctgc accgtatcgg tgagttttac 39600
cggacgactg tagataccta ctttattttt cgccagatcg atatccgtgc gcaattccag 39660
caagccggaa ggcggaatcg cctcttogac cgtcgcgccc tctccagcg ttacgcgctg 39720
caaatactgc ttttccggca ggcataaagc cacttcaacc acaagtttat ccggcacggg 39780
aaacctcttt ggcggaacc gtaaagcgt gcaccatgtt ggacgctaac tctttgaata 39840
tacgaccaa cgccagctca atgagtttat tggtaaactc aaaatcaagc tgaaactcaa 39900
tgccgcaagc ctcggggctg agcggggtaa atttccagcc gccgatcagc tttttaagg 39960
ggccatccac cagatgcac agaatactct ggttacgct tagctgatta cgcgtcgtaa 40020
acgtcttgct gataccgcgc ttcgacacgt caacagccgc cgtcatctgt gctggcgatg 40080
actccaggac acgactgcca acacaccag gcaaaaactg gggatacgat tgcacgtcat 40140
tcactaactg atacatctgt tccgcactgt aggggactaa agcagtcga ctaatctgag 40200
gcatagcaat tcccatcaac ataaatcgtg taaataatac cacttatcag cgagtaaaaa 40260
aaatgctgtc cccaaccgtc atgccttaat tgtgcgtgca tagcccaact catgctaaga 40320
tagatttttg cacctcatca ggacgtaatg ggggtgtttc gatatcagat tacctatgaa 40380
ttcacgacac ttatgacgaa gaaaaaagca cataaaccgg gtcagccac catcgcgctg 40440
aataagcgcg cccggcacga atactttatc gaagaagagt tcgaggctgg tctcgccctg 40500
caaggctggg aagtaaaatc tctgcgcgca ggaaaagcca atatcggcga cagttacgtt 40560
atcctcaaag atggcgaggc ctggctgttt ggcgcaaact ttacgccgat ggcggtcgcc 40620
tcgacacatg tcgtatgcga cccaaccga acccgcaaac tgttgttaaa tcagcgtgag 40680
cttgattcgc tgtatggcg tattaatcgt gaaggttata ctgtcgtcgc gctttctctg 40740
tactggaaaa atgcctggtg caaagtgaag atcggcgtgg cgaaaggtaa aaaacaacat 40800

gataaacggt cccatcttaa agaacgtgag tggcaactgg ataaagcacg cattatgaaa 40860
aatgcaggcc gataatagac attttttgtg accagcttct cagtatgaag ctgggtcaatg 40920
ttcatatctc atgcatgcct cga aaatata ttctctgtgt ctgacgctta tcaatagcaa 40980
taaataccac accacaacaa gaatatattc ttgttttaaa aaatttttat agcctaataa 41040
cacaatactt caaatgatth ttataaaatt taatattgct gaataccttc acaaaaagta 41100
ttgtttttat gttaaaagag aaa aagaaga aaaaattaaa attcattata aaacataaag 41160
ataaataaaa aattatcatg cat tgttagc ccaccctacc tctccttaac acaaacctcg 41220
ttatatthca gacgcactaa caCctttatc aatagatctt aatttgcaga aagatttttt 41280
tctgactata tcatctaata cgaaagcact agtcaggcac aaaaaacaaa tggttattcg 41340
acgagaaaac cagaccttca cctacgctca taaaaaagaa tatggctacg gaaattcatc 41400
tctcacgata aacgggaagg ctCgtctacg cattttgccc tgaacgtcgt gcccgtaat 41460
taatacacag agcaaacc a tcaggagcta atttatgcgt ctactcgccg tggtttcgaa 41520
attgactggc gtctccacca ctgtggaatc ctacgggtc actcttaacg cgccttcaat 41580
tgtaaaatta tcagtggccc gggatgaaat tagtcaactt acgcgcatta atcaggatct 41640
ggtggtgagg ctccattccg gcgaaacgat cacgattaaa aacttttacg ttaccaacga 41700
tctgggcgca agccagctgg tactggcgga aaacgatggc acgttatggt ggggtgaaaa 41760
tccgcaagcc gggctacatt ttgaacaaat cgctgatatt aatgagctgc tggtcacttc 41820
cggcgcttcc catgaagcag gcggcgccgt ttggccgtgg gtactggctg gcgcgggtggc 41880
ggctggcggc attgccgcta tcgcgtcttc cggcggcggc gattcccacc atcattcgga 41940
tggcgataat ccgcccccg ataacaccaa tctgacgggt aatccccctg ataacagcaa 42000
tcccggcggc agtaacccta acggcaatac tccaggtagc agtaatcctg tagatactac 42060
ccgcctctc gctcccgcg aattattgat ttcacgggac ggaaaaacgg tgagcggcga 42120
ggccgaagcg ggcagtctca ttaccatcaa agatccctca ggcaacgtcg ttggcgaggg 42180
caaagcggat agcgacggta aatttagtat tgatctgaca gcgccacaga ttagcggcga 42240
acaacttacc gtgactgcga ctgacgatgc cggcaatacc ggcccatccg caaccattga 42300
tgcgcccaac attcctctcc ccgatacacc gggtatcacc gccgctatcg atgatgccgc 42360
tcccctcacc ggcagctga gcaataatca gtttacgaac gacaataccc cactctgga 42420
gggcaccggc agcgcaggca cagtcacca tatttacgcc aatggtcagg aaataggctc 42480
aacaacagtt gataccagcg ga aactggca ttttgccatt accagcgcgc tagcggatgg 42540

ggaaaatcat ttacccgcca ttgcgactaa cgtaaaggc gaaagtagcg aatcagccc 42600
 ctttacgctg actatcgaca cactcagccc cgatgctcca cgcgttgaac tgatggccga 42660
 taacaccggt ttgctcaccg gaccgctaca gaataatgac cggactgacg aggcaaaacc 42720
 gctattttcc gggcagggag aggcaggcaa taccatcacg attaaagagg gttcaaccgt 42780
 tatcggcagc gctaccgtag acgaaaatgg acgctggacc ttacgcccga ctacgccgtt 42840
 aagcgatggc gaacatacct ttacgctcga acagagcgac aaagccggaa acgcaagccg 42900
 cgtgacgaca acgcctacta tcatttgtga caccacgccg ccggacgccg ctatcattga 42960
 taatgtcgcg aaagacggca caaccgtag cggcacgcgt gaagctggca gtaccgtgtc 43020
 gatctatgac ccggcgggaa attacctggg ctccacgatt accggagaaa ataaccactt 43080
 cagcatcacg ctgaatccgg ccagaccca cggcgagcgt ctggaagcgc gtattcagga 43140
 cgccgtcggg aacatcggcc ccgccacaga gttaccgct tctgactcac agtatcctgc 43200
 ccagccgact atccttaccg tga cggatga cgctggcgcc gttaccgggc tgttgaaaaa 43260
 tggcgatgcc acagatgata accgcccaac cctcagcggg actgctgaac caggcagtag 43320
 gatatcgatt aacgataatg gctttcctgt tccgagcttt ccgccattg tcgctgacgc 43380
 tgacggcaaa tggagcttta cccctcgtt ggcgcttgcc gatggcgacc atgtctttac 43440
 cgctaccgcg accaacgatc gcggcactag cgggcagtcc gtcgccttta ccattgatat 43500
 cgacacgcag ccgccggtgc tggaaggcct ggagcttagc gacgtcggcg acagactcac 43560
 cggcactacg gaagctggca gcaactgtgt tatcaaagat agcctgggaa atacgctcgg 43620
 gagtggaacg gcaggcgacg acggcacctt ctcaataggt attagcccgg cgaaaattaa 43680
 cggtgaaaca ttaagcatta gcgttaccga taaagccgcg aatagcggtc cggtagaaac 43740
 gctgaacgcg ccggataaaa ctgcgcctgc ggcaccgaac ggtcttatcg tggcgaccga 43800
 cggctctgtc gtaagcggtc aggcggaagc cggggcaacg gtcactatcc gcgacagtag 43860
 caataccgta cttggcagcg ccgtcgcctaa cggcaacgga caatttatcg ttccgctgaa 43920
 tgcggcgagc actaacggcc aggcgcttat cgctaccgcc accgatatag cgaacaacga 43980
 aagcgccgcc gcgacggtcg acgcgccgga cagtaccgcg ccagaaatgc cgaaaaacgt 44040
 ggtaattagt gaggatggcg ccagtatcag cggcacgcc gaaccgggta gctccattac 44100
 gatcaccacg ccggacggca cgcgcgctcg cagcggcaaa gcagatggcg aaggctat 44160
 tacccttccc ctgcgccccg cacagaccaa cggcgaacag gttaccgtca ccgccaccga 44220
 cagcgccaac aacgtcagcc cgccaactac agcgcaagcg ccgatatca ccgccccgga 44280

-42-

taagcccatt atcaccagc tgctggacga tgttgaaagc ttcaccgggc cgctgggttaa 44340
cggacaaacc accaatgaca accgccccac ccttagcggc acggcggagg ctggcgcgcg 44400
tgtcgaaatt tttgataacg gcgtttcgct ggggctcgcc acgctacagc ccaacggcgg 44460
ctggacgttt acgccgtcgc aaaatttagg tgaaggcgcg catcgactga ccgtaatcgc 44520
aaccgacgct aaaggcaatg ccagtcgggc ggggaacgaa agtcgggaat ccatcagctt 44580
taccctacgc atcgataccc aggcgcggga tgcgcgcgag atcgtgtcag ccgccatcac 44640
aggcggagaa ggcgaggtgc tactggcaaa cggcagtatt accaatcagc gtatgccgac 44700
cctcagcggc accggcgaac cggcgccat catcacctg tacaataacg gcgtagaact 44760
ggctaccgtc caggtcaatc cacagggtag ctggacctat ccgctaacc gtaatctgag 44820
cgaagggtta aacatcctga cggccaccgc cacggatgcc gcaggcaata gtagcccgac 44880
ctcggcggtt ttctcgtta cccttgat ac ccagcctcca ggcagcctg acgcgcgct 44940
aatcagcgat aacgtcgcgc cgtttatcgg caacatcggc aataatggcg caacgaacga 45000
taccacgccc accttcagcg gcacgggaga gatcggcagc acgataattc tctacaataa 45060
tggcagtga attggtcgca caacggtagg cgataacggt agctggaact ttacgcctgc 45120
ggcactgacg ccagaaacct ataccattac cgtcacggaa accgatatag cgggcaatat 45180
cagtcacact tccgcctcag tcaacttttac gctagacacc actgcgccc ccaatccggt 45240
tatcaacttt gccgaagata acgtcggcga agtccaggat actattgtca gcggcgcaac 45300
cactgacgac aatacacggg tcattcacgg cactggcgac atcggcagcg tgatcacgct 45360
ctataatggc agtagtgtcg tgggcgtagt caccgtcgat gagaccggt cctggacgct 45420
gccggtgacc agcgcgttgc cggatggcgt ctacacctg accgccattg ccgccgatgc 45480
cgccggaaac agcagcggcg tatcgaaacg ctttaacctc accgtcgaca ccgttcggtt 45540
gcagccgcc gtcgtcaatg agatcctcga cgatgttgca ccagtgaccg ggccattaac 45600
cgatggcgcc ttactaacg atcggacgct gactattaac ggcagcggcg aaaacggcag 45660
caccgtcacg atttacgaca atggcgtggc aatcgggacg gcgctcgta ccgacggggt 45720
ctggacattc aatacgtccg aattgtcaga agccagccat gcgctaacct tcagcgcgac 45780
tgacgatgct ggaaatacca cggcgcaaac ccaaccgatc accattaccg tggatatcac 45840
cgccccgcc gcgccaacga tccagacggt ggccgatgat ggcacgcgcg tcgccggact 45900
tgccgatcct tacgtaccg ttgaaattca tcatgccgat ggcacctgg tcggcagcgc 45960
tgtcgcta at ggcaccggtg aatttgtcgt cagctcagt ccggcgcaaa ccgatggcgg 46020

tacgctgacg gcaattgcta tcgacgcgc ggggaataac ggcccggcta cgaattttcc 46080
 tgcttccgac agcgggtctgc ccgccgtccc ggccatcacg gcgattgaag atgatgtcgg 46140
 gagcatacag gggaatattg cagcggggcg cgccacggac gacaccatgc cgacgctgcg 46200
 cggcaccacg gatatcggct ctaccgttga agttttcatt gatggcgatt cggcaggctt 46260
 tgccaccgtt gacgccagcg ggaactggat ctttgagatc gcgacgcat taagcgaaag 46320
 cacacattac ttcaccgtcc aggcaaccaa tgcgaatggc ccgggcggcc tgtccgcacc 46380
 ggtcgggac actgtcgate ttagcgcgc gccacaaccg gttattacca gcgcaacgga 46440
 tgatgtcccc ggcatgaccg gtacgctgga taacggcgcg ctcaccaatg attcacgcc 46500
 gacgtcaac ggaacgggag aagcaggcgc cacaatccgc attctggata acggcgtaga 46560
 aatcggttcc gctacggtag atcaaagcgg caactggcgc ttcaccccga acacgccgct 46620
 ggagagcaac gcacacatct ttaccgccgt ggcgaccgat cccgccggca atagcggta 46680
 gctttcggat ggttttacgc tgaacattga cgcgcaggca ccagatgtgc cggttatcac 46740
 ctccgtgatt gacgataaca atcaaccgac cgtcccggtg ttaccggggc aatccaccga 46800
 cgatcggcag ccaatactga acggaactgg cgaacctggc gcgacaatca ccatttttga 46860
 taacggtacg ccgcttgga cggctcaggt aggcgaaaat ggtagctgga ccttcccggt 46920
 gccccgcaat ttgtcagagg gaagccataa tctgacggtt agcgtaccg atccggcggg 46980
 caataccagc gcggtctccg ccgctggac gatcgtggtc gatattacgc ctccggcgat 47040
 cccggttctc acctccgttg tggatgacca gcccggtatt accggcaacc tggttagcgg 47100
 gcagctaacg aacgatgcga cgcaccct gaacgggcgc ggagaggcag gcgcgacgat 47160
 taatgtctat cttgacggtg atccgcgct catcgttacc acgacggtga atagcgacgg 47220
 cacgtggagt ttcacgcgc agacgccgt tgcaaacggt agccacacgt tcacccttag 47280
 cgccaccgat ccggcgggta atagcagcgc ggtgtccagc ggatttgtgc tgacgattga 47340
 caccacaccg cccgccgcgc cggttatcgc cagcgtggca gataatacgg ccgcggtaac 47400
 gggcatcgtc cccaacggcg gctcgacgaa cgaaaccga ccaacactct cgggtaccgg 47460
 tgaggcgggt acaaccatct cgatttataa tggcagcgc ctggtcggca cggcgcaagt 47520
 tcaggccaac ggtagctgga gctttacacc gtctacctcg ctgggcgcgg gcgtctggaa 47580
 cctgacggcg acagcaaccg atgcggcagg caataccagc gccgcgtccg aaatacgctc 47640
 gtttactatt gataccacgg ctcccgccgc gcctgttatt gatacgtct acgacggtac 47700
 gggccccatt accggcaatc tgagtgcagg gcagatcaca gacgaggcgc gccctgtcat 47760

tagcggcacc	cgtgaagcca	acacaactat	tcgtctctac	gataacggca	cgctgctggc	47820
tgaaattccc	gccgacaata	gcagtagctg	gcgctacacg	cccgcgcct	cgctggcgac	47880
gggcaaccat	gtaattaccg	tcattgccgt	tgatgccgca	ggcaacgccca	gccccgtttc	47940
ggacagcggt	aatttcgtcg	tcgataccac	gccgccgctg	acgccggtaa	tcacatcagt	48000
cagtgcgat	caggcgccag	gcctcggcac	gatcgcgaa	ggccaaaata	ccaacgatcc	48060
tacgccaacc	ttcagcggca	ccgcagaagc	cggcgccacg	atcacgctct	atgaaaatgg	48120
tacggtcatt	ggcacgacaa	cggctcagcc	tgacggcgcg	tggagcgtct	ccacctcaac	48180
gttggcaagc	ggaacgcacg	tcatcacgcg	cgtcgccacc	gatgccgcag	gaaacagcag	48240
cccgaacagt	acggctttca	ccctgacggg	cgataccacc	gcgccgcaaa	cgccaatcct	48300
gacgtccgtg	gtggatgacg	tcgcggggcg	ggtcacagga	aatctcgcta	atggtcagat	48360
aaccaatgat	aaccgccccca	cgctgaacgg	cactgccgaa	gcgggcagcg	tggtcagtat	48420
ctatgatggc	gacactctgc	ttggcgtcac	ctcggctaac	gctagcggcg	catggagctt	48480
cacgccgacg	acaggggttaa	acgacggcac	gcgcacatta	acagtgaccg	ccaccgaccc	48540
agcaggcaac	gttagcccg	ccaccagcgg	ttttactatc	gtggtcgata	cccttgcgcc	48600
aacggttccg	cttataacca	gcacgttga	tgatgtcccg	aacaataccg	gcgccattgg	48660
caatggacaa	tcgaccaatg	acacacagcc	gacgctcaac	ggtaccgcg	aagccaacag	48720
cgcggtaagt	atcttcgata	atggcgcgct	ggtcgcgacc	gtgaacgccca	atgccagcgg	48780
caactggagc	tggaagccaa	ccgcctcgct	cggccaggga	agtcatgcct	atagcggttag	48840
cgcgccgat	gcggctggca	acgttagcgc	cgcttcgcca	tcgacaacga	ttatcgtgga	48900
taccattgcg	cccggcgcg	ccggtaacct	agtcatcaat	gctaccggta	atcgggtgac	48960
gggcaccgcg	gaagcaggca	gcacagtgc	gattacctct	gagactggtg	tggtactggg	49020
aaccgccacc	gccgacggta	cgggcagctt	caccgccaca	ctcacgccc	cgcagaccaa	49080
tggtcagccg	ctactggcat	ttgccagga	taaagcaggc	aacactggca	ttgccgccgg	49140
atttaccgcg	cccgatacgc	gcgtgccgga	agcgccgatc	atcaccaacg	tagtggatga	49200
tgtgggtatt	tataccggcg	ctatcgccaa	cggtcaggtc	actaatgacg	cacaacccac	49260
attgaatgg	accgctcagg	cgggcgccac	ggtgagcatt	tataacaacg	gggcgctgct	49320
cggcaccacc	acggcgaacg	ccagcgggaa	ctggagcttt	accccgacag	gcaatttgac	49380
cgaaggcagc	cacgccttca	ccgctaccgc	aactaacgcc	aacggtacag	gcagcgtctc	49440
caccgccgcg	acggtgattg	tcgatacgct	ggcgcccgg	acgccgtcag	gtacgctcag	49500

cgccgatggc ggttcacttt ccggacaggc tgaggcaaac agcaccgtaa ccgtaacgct 49560
ggcggggggc gtgacgctca ccaccaccgc cggcagcaac ggcgcatggc ctctcacctt 49620
gccgacaaaa caaattgaag gtcaactcat taacgtgacg gccactgacg ctgcgggtaa 49680
cgctccggc acgttaggca ttaccgcgcc gattctgccg ctggcggcaa gggataacat 49740
aaccagtctt gatctgacct ctaccgccgt caccagcacg caaaactatt cggattacgg 49800
cctgctgctg gttggcgogc ttggcaatgt cgctcggtt ttgggtaacg ataccgctca 49860
ggttgagttc accattgctg aaggtggtac gggcgacgtc accatcgatg ccgccgcaac 49920
gggaatcgtg ctttcgctgc tcagcactca ggagatagtg gtacagcgct atgacaccag 49980
cctcggcacc tggacgacga tcgtcaacac cgccgttggc gacttcgcga atttgcttac 50040
cctgaccggg agcggcggtt ccctgaacct gaacggactg ggcgaaggcc agtaccgggt 50100
actcacttat aacaccagtc tgctcgccac cgggtcatat accagcctgg atgtcgatgt 50160
acaccagacc agcgcaggta ttattagcgg gccaaaccatc agtaccggca acgtcatggc 50220
tgatgatacc gcgccgacgg gcaccacggc caccgccatc accaacgcca acggcgctcag 50280
tacgccggtc ggcgcgggcg gcgtggatat cctggggcaa tacggcacgc tgcacattaa 50340
tcaggatggc agttacacct acacgtgac taagcccacg gcgggatacg gacataaaga 50400
gagcttcacc tacaccatca ccagaatgg cgctcggtagc agcgcgcgc aactggttat 50460
taatttgggt cccgcgcctg taccgggcag cgtgatagcg acagacaata acgcctcgct 50520
ggtctttgat actcacgtta gctacgtcaa caacggcccc tcgacacaaa gcggcgctcac 50580
ggtattaagc gtcggacttg gtaatgtact gaacgcgaat ctgcttgatg atatgactaa 50640
tccgatcatc tttaacgttg aagaaggcgc tacgcgaacc atgacgttac agggaaccgt 50700
cgccggcgctc tcactggttt ccacgttcga tctgtacgtt tatcgcttca acgatgccat 50760
tcaacaatat gagcagttcc gggtgcaaaa gggctggatt aacaccctgc tgtagccgg 50820
acagtcccag ccgctgacct tgacgttgcc tggcggcgaa tacttgttcg tgctgaatac 50880
cgccagcggc attagcgtcc tcactggcta tacgttggcg atttcccagg accacaccta 50940
tgccgttgac agtatcaccg ccaacaccac cggcaacgta ctgaccaatg atgtcgcccc 51000
tacggacgcc ctctcactg aagtaaaccg cgtggcgatt gcggcgaccg gcacgacgga 51060
ggtaaatggg ctgtatggct cgctcatcat tgacgcaaga ggcaactata cctacacgct 51120
gaagaacggc gtcggcgccg acagcattaa aacgccggac agctttatct atacgctcaa 51180
agcgccaaac ggcgataccg atacggcctc gctcaatatc acgccaaccg ccagggcgct 51240

ggatgcgatt aatgatgtca gcgataccct tagcgctcgcc acgcttcagg ataccgctgc 51300
ctggctggac tccagcgctc gcagcgccag ttgggggcta ctgggcaa at cgggcagcgg 51360
gagcggcacc tttgacgttg caacgggcac cgtacttaaa ggcgcgtcac tggctcttga 51420
tgtctccacg ctcatcagc tgggcaatct gaatattagc tgggccattc aggagaacgg 51480
aacgctcata cgcaacggaa ccgtcccggg ggcgaaatc acgctgggca gcgcgacggg 51540
gaccgtcaac ctgagcggcc tggagctgga tgccggaacg tacacgctta actttaccgg 51600
caccaatacc ctggccgggg cggcgacaat cagccacgc gtcacggca ccaccgtcga 51660
tctggataat tttgaaacgt ccggaacgca taccgttctc ggcaatat ttgacggcag 51720
cgacgcggcg ggggcgatgg atcagcttaa tacgggtaac actgcctga gcattagcgg 51780
gtataacggc agcgccgcca cgctggacgc cgcggcgaat accaccagcg ccacgattca 51840
gggacattac ggcacattgc aaattaacct cgatggcgct tacacctaca ccctgaataa 51900
tggcgctcgc atgtcgtcca tcaccagtaa agaggctctt acctatcaac tggatgacaa 51960
gataggtcat acggatagcg ccacattgac cattgatatg gcgcgcgcaa tcgtcagtag 52020
caaccaaacc gatgttctta tcggctccgc ctatggcgat acgctgattt atcacctgtt 52080
aaacggcgcg gacgcgaccg gcggcaacgg cgccgatcgc tggcaaaact tctccaccgc 52140
gcagggcgac aagatcgata tccacgaact gctgaccggc tgggatcacc aggcggcgac 52200
gctaggtaac tttgttcagg ttcataccag cggcgccaat acggtgatat ccgtcgatcg 52260
cgacggcgcc ggcagcgct ttaaatacaac tgacctgtc actttggaga atgtgcagct 52320
cacgctaaat gatctgttg agaacaacca cctgataacc ggcggttgat aaaaagcccc 52380
gaacgccacg acgttcgggg caacaagcgg tgatatataa aagggataaa ctatgggaag 52440
agtgcgcct gtgcgcatcg tactggcatt tgctttgttt catcaccagc cccggggcgc 52500
agaagcgctg ccaatgatta catccgaagg attagcaacg gaccagatgc ttccttcgct 52560
ggatggctcc gccgctgagt tgccgctcag cgccgcgcgc cgggcaacc tgacgctcaa 52620
tgacgcggtc aatcgcgcg ttaactggca tccttctatt cggaagccg tcggcaaaact 52680
gctcgcacag aatgaacaaa tagaggctgc caaatcgaaa tattatccgc aagtcagcgc 52740
tggcgtgaac aatgggtaca gcaataccta caccgatcac gggtatagcc cctcgctggt 52800
gctgtcggta tcgcaaatgc tttatgactt cggcaaagtg gcaagccagg ttcgcgccga 52860
aaccgcaggc gcagcacagc aacaggccaa cgtgttgctc agtattgata ccgtcgcgca 52920
cgaaaccgcc aacgccattg taaaacgca gagctggcag caaatggtag aagcggcgga 52980

agaacagctc gtcgcgctgg acagcatcgg taaactt atc cggcagcgca gcgatgaagg 53040
cgctacgtcg ctatctgacg tgggtgcaa ac cgaagccaga atcgaatccg cccgctcgca 53100
actggcgag tatcaggcca atctcgacag tgcgaaaggcc tcaactgatga gctggctggg 53160
ctggaattcg cttaacggca tcaataatga cttcccgggc aaactcgctc gcagctgtga 53220
gacagcgacg cccgaagatc ggctgggtgcc cgcggta actg gccgcctggg cgcaggccaa 53280
cgttgcgcgg gcgaatctgg actatgccag tgcgcaa atg acgcgcagca tttcgctcga 53340
accttctgta caacattatc ttaatgacaa atatccagc catgaagtgc tggataaaac 53400
ccagtattcc acctgggtga aagttgagat gccgctttat cagggcgagg ggctgactgc 53460
ccgacgcaac gccgccagcc atgcggtaga cgcggctcag tcgaccattc agcgcacccg 53520
gcttgatgtc cgccagaaac tgatggaggc gcgcagccag gcaatgagtc ttgccagcgc 53580
gttaciaaac cttcgtcggc aacagcagct tagcgaa cgc acgcgcgaac tgtatcagca 53640
gcaataacctt gacctcggtt cccgcccggt gctcgacgtg cttaatgcgg agcaggaggt 53700
ttaccaggcg cgttttgccg aactgcaaac ggaaagccag ttgcatcagt tacaactgaa 53760
ctatctgtat aacaccggcg cgcttcgtca ggcgcttcgcg ttaaatacgc gcagcattca 53820
atccgtggag atccagccat gaccgcgcgc gcccccgatg tagaagaggt actcagtgag 53880
cgcgcgctaa gccaatgggc gcaggccatc agccatgtcg ccggtcatta tcgcgttgcc 53940
tgttctcccg gttcaattca ggccaacgcc ccgtgggttta ggggtaaaag cagaacgacc 54000
gccttaacgc agctcgcgcg gcaggcggtt ttatcctttc atgcgcgcga catagacaaa 54060
acggcattta gtcagtggcg attgccgttg gttgtcgagc tccgggacgg gcagttattg 54120
gtcatcgaa atgttaatgg cgaagatgcg gtagacgttt ttgtgattga agaagagggt 54180
cagcgtaacc gcctgacgt cagcgagtta ttgcgcgaga tcctctatgt tgccgcgcta 54240
cgcccgctat cggcgctcaa ggatagccgc gtcgacgcgt atatctcccg ctttaaacc 54300
gactggatgc gcgagctggg tctgcaggat attcgccctt atttaccggg aatggtcgcc 54360
gcctttctga ttaacgtgct gtctctggcc gggattgtgt tctctatgca ggtttacgat 54420
cgggtgatcc ccgctcagtc atatactacc ctgtacgtgc tctccttcgg cgtgctggta 54480
gcgggtgctgt tcggttttct gctgcgtgaa gcgcgtacgc acattatgga cgtgctcggt 54540
aaacgcgccg atatgcgcat ttccgatcgg gtattcggtc atgcgttaag gctgcgcaac 54600
agcgctatcc cccgttcac cggcagtttt atctcgagc tacgtgaact ggagcagatc 54660
cgcgagatga ttacctcttc aacgctggcg accattgtcg atctgccttt ctttttctg 54720

tttatgatag tcttggcgat tattgcccc cgcctggcat ggatagcgcc cgtggcggct 54780
 ctgctgatga tcctgccggg cgtcgactg caaaaaaac tggctgtcct cgccaaccag 54840
 gccgcccacg aagcgacgct acgcaatgcg gtcttggtcg aaagcggtca ggggctggaa 54900
 gatattaaac tgatgcaggc ggagaaccgc tttcttcagc agtggaatag ctatatccgt 54960
 attaccggcg agtcgggtct acgcaccgc aaactcacgc aaaggcttat cagttggggg 55020
 atgtcggtag aaagtctggt gtatgccgca gtgattatgt tcggcgcgcc gatggtcatt 55080
 gaaggcagta tgactaccgg cgccgtggtc gccgcgtcga tgctcggctc acggatgac 55140
 gcgccaatgg ctaacctgtg cggcgtgctg gcgcgctggc agcaggtgaa agcggcgaag 55200
 atgggtctcg acaacattat gcaactgcc actgagacac agcatgacga tagcctgata 55260
 caccgcgaca tcctccacgg gcattacctc ttgaaaacg ctacgtttcg ttaccataac 55320
 gacgatcaac gcataccgct gcgcctcgtg cgtctggaga tcatgccagg cgagcggatt 55380
 gcgatactgg ggcgtaacgg tgcgggtaaa tccacacttt tacaggcgat ggcgggcggc 55440
 ctggagatga ttcagggaga tgcccggtt gataatctca gcttgctcga catcgatatg 55500
 gcggatttac gccgcaacat cggctttctt agccagaacg cgcggctttt ctcggcacc 55560
 ctacgagaga acctgacgct cggcgcgccg caccgcaacg atgaacagat ttttgacgcg 55620
 ctggaagtca gcggcggcg cgtcttcgtc aggcggctgg caaaagggtt ggatcatccc 55680
 attatggagg gtggtaacgg cctgtccggc gggcagcgtc agtccctgtt gctggcgaga 55740
 atgctgctgc gctccccaa tattgtgcta cttgacgaac ccagcgctc gctggacgag 55800
 catacggaac gagagtttat tcagcggtta catcagtggc ttggcaaccg taccctggtc 55860
 gtcgcaacgc accgggtacc aatactggag ctggttgagc gtgtcgttgt cctgaaagaa 55920
 ggacaactgg tgatggacgc gccaaaagcg caggcgctta acgcggatcg gatgcaaagt 55980
 caccgtcggg agtagaaaaa tgaaaatcaa tcagcatgat gccgcgatgg acgatttcga 56040
 tattcagcgt gaacgggcgt ttccggcg cggctcgatt gttctgatct gctcactgtt 56100
 atttctcatt ctcggcattt gggcgtggtt tggccgactg gatgaggttt ccaccggcaa 56160
 cgggaaagta atccccagtt caccggaaca ggttctgcag tcgctggatg gcggcattct 56220
 ggcgagattg acggtgcggg aaggcgacag agttcaggct aaccagattg tcgccagct 56280
 tgatccgacg cgtctggcgt ccaatgttgg tgaaagtgcg gcaaaatata gcgcttact 56340
 cgcctccagc gcacgggtta ccggggaagt cagcgactta cctctcgct tcccgetga 56400
 gctgaacggc tggccggatc tgattgccgc agagacgcgt ctctataaaa gccgcgcgc 56460

gcagctggcc gataccgaag ccgagctacg ggatgcgctg gcgtcggtta ataaagagct 56520
gaccattacc cagcggctgg agaaaagcgg cgcggccagt catgttgaag tgctacgcct 56580
gcaacgacaa aaaagcgatt taggcttaaa aattaccgat ctgcgctcac aatattatgt 56640
gcaggcacgc gaagcgttat caaaagcgaa cgctgaggtc gatatgctct ccgccatttt 56700
aaaaggacgc gaggattccg tcacccgcct taccatacgt tcgccggtac gcggcattgt 56760
taaaaatatac caggtcacga cgattggcgg cgtgatcccg cctaacggtg agatgatgga 56820
gatagtgccg gtagacgac gtctgttgat tgaaacccgc ctttcgccgc gtgatatacg 56880
ctttattcat ccggccaac gcgcattggt taaaattact gcttacgatt acgccattta 56940
cggcgggctt gacggcgtgg tggagaccat ttcaccggat accattcagg ataaagtga 57000
accggaaatt ttctactata gcgtgtttat ccgcacccac caggactata taaaaataa 57060
atcaggacgc cgtttttcga ttgttccagg catgatcgcc acggtggata taaaaccgg 57120
tgaaaaaacc attgtcgact atttaataca accgtttaat cgcgcgaaag aagcgtgcg 57180
cgagcggtaa atcgctgaag ataagaagat acgggggctg gtcacgcgtg tcacaagtct 57240
gttatactta ccttacacat tggggctgat tctggattcg acgggatttg cgaaacccaa 57300
ggtgcatgcc gaggggcggg tggcctcgta aaaagccgca aaaaaatagt cgcaaacgac 57360
gaaacctacg ctttagcagc ttaataacct gcttagagcc ctctctccct agcctccgct 57420
cttaggacgg ggatcaagag aggtcaaacc caaaagagat cgcgcggatg ccctgcctgg 57480
ggttgaagcg ttaaaacgaa tcaggctagt ctggtagtgg cgtgtccgtc cgcaggtgcc 57540
aggcgaatgt aaagactgac taagcatgta gtaccgagga tgtaggaatt tcggacgcgg 57600
gttcaactcc cgccagctcc accaaataaa tcaaggggtt acgtgaaagc gtagcccttt 57660
tttctttggt agtggcggca aatggcggc aggcattcag tcaagcccag ttgctactac 57720
atgcgatcgc aattacaact taaagagttt cgcttgccct ggattaacag cttcgacgta 57780
gtttttgacc cctattctgt gcggctcata attgcttgaa tagaaatcaa tcaggaagtc 57840
actcattttc tgagatgtga ctttcataac tcccttactc aaagttaaata taaacacgct 57900
aatctttgac gatggtgcct gagttttact catgttggct tgataaccag atttacgcat 57960
tgccactagt gcttcgctgt aagccgcttg taattgggcc aaattgtttg acgagatgat 58020
cacatcatcc atacacacac ttagcttgag atcatgatgt ttgttcaatc ggcgtagtaa 58080
gctacaaaaa taacttttat ctaagcagag ggttgcaagt attggagatt gaacaaaacc 58140
aaaagggagg acatgcttat gtggactatg ggacaagt tt cttacagttg aaaatgttga 58200

-50-

gattttccgc gcttgagaat aggtgaagta gctctttaga tcacgggtga tacgactacg 58260
gctcgttgac tgaaaaaatt gtttaatatc aacaacggca aaaaaatcac tttttaagtg 58320
taatctggca gctttaagat gccaccaggt tcttagatgg taaaaataga gtggcggaat 58380
ccacttgttt ctgacagcct gaagtatctt ccctccgact ttacgtgcct caacgcttgg 58440
gacataaacc caaaccgccg gcttaatctc aaatttatct tcccaccttt gaacttctat 58500
tgtcatgagt taaattgttg tagttgaagg ccatgttaag aacggcgtaa accgcaccaa 58560
ctaagccaac aaacgcggtt gcgcatttga gcatagcggg gatcagttca acacgcgcct 58620
taactaagcc aagttcgttt gtatccataa cttgttcctc catagatacc tgacgtctct 58680
tagcgcaagc gcatggccct aactaaataa aaaataacaa ccagtttagcc cagaaagctt 58740
aacaagtcgg cgtccgatta catggcaacc aggtaatcgg tccgcagtcg caaagcgaca 58800
aactacatat ctacggagtg gggataaatc cccgctaacg tcaggcattg ttaatttaac 58860
ctcaacttat agaaaagtat agttttaaat catgtagtta tgtcgccatt taaatcgga 58920
aaccacactg tttaaattta tgaggatgag gctgaaccgg atttgactct tttggcggtg 58980
caatcgaacg aacaaaagtt tcatgggtaa caaagtatg gctgcagtta atgttctggc 59040
actggttgta acgctctttg gtcaatgaag atacctgaaa actgctgcga gtatggcgcg 59100
cacttccaca cagtgggcaa atcatcattt ttcgagctct ccccatTTTT gctaaattca 59160
caataatgat accgcattat tccattttgc aaacttaaaa gttctccatt gcgaagaatc 59220
attccatttc gaaatcatca atcctcactt caagctccag actggctcgta aaaccattat 59280
ccgggctgac agtatgtgtc agggtggtta tggtcattc cgcacatct atcggtgtt 59340
taaagccact gaccttcaca ggcatttccg tgtagagatc tgcccgacct tccgccagtt 59400
gtagcgagaa tgacgcaacg ccgcgttgca agcgttccca ctgcattttc gccgctcgtt 59460
cggcggttgct ccggttgga taagtgcgat taagtaccag cacgttttca tccgtccca 59520
ccaggtaatc gccctgcttc gcttccggct cttctctctg cttcttagtc ctgcgcttac 59580
gcttcaccgt ggtgctttct ttcttcggcg gttcgcgggt atgcaaccag ctggcaatta 59640
cgcccggtgta ggctccgca tctgccaggg taaagcggtg actgtcgccg tccttccgtg 59700
tgatagtgat caccggcagt ggtttaccgc tggcgctttt acctgtccc tgccggatga 59760
ataacagatt gccatttttc accgacgcaa tagcacgta ctggcgcgcc agccgcatca 59820
gaaaactgcc gtcactctca ttggtctggt ctatatgtc cacgggttta tccgacaggt 59880
cttcacccaa tgccatcttc agtttgtgcc gcgcagctat ttcttcacc acttcccaa 59940

cggtggtctt gtgccacgat ttttcacggc gggatttcag ggtttcacga aaatcagcac 60000
ttcgcgcccc gatagtcagg cggteccggtg cgcagtggtg ttcaatctcg tccaccgtga 60060
atgctccttt cgggaaaagc ggctgcccct tccagcccAa cgcagcgta atgacagccc 60120
cacggcgagg cagcacgatt tttccgtcgg cgtcgtccag ctccaaatca agctgggtctg 60180
cttcaaagcc ccgattgtcc gtcagcgtca gactcatcag gcggttatcc agcacagtgg 60240
tgatatacct cccctcaata ctgatgctga atgcgggagt tttgttgccct ttgttaagca 60300
gttcagagct gaaattcacg acagcagccc tcccaccgtt ttactgatat cgcttaaggc 60360
agacgttacc gtatcctgca aattattcag ctgcgcactg agatcaccca acatatcgga 60420
cagggattca tccaccgtt tgagcgacag ggtgaactca atccggcgcg gcataccatc 60480
gcggaaaaac tccgttttag tctgattcag tccctcaatc acatacatgc cgtaaatacgt 60540
gccgtgctt tcaatcaggg gccatgcttt tccctgttct gccatctgct ccagagccag 60600
caacgacagt ctgcgcgccg ttatctccgg cataagaaca ccagaaagcg tcagcatgtc 60660
gttgctcggg cccagaaact gcgtggatgg acgtcgggtg acccggtgtt ttgcgcagt 60720
tcgccagctg cgttgataca gcagttcctg atacggcaca gtgcgcagca taaacacgta 60780
caatcccagc accatcatca tgcgtcgtat cccccctgat cgctgtagtt actcctggct 60840
tttgccctca gcctgcgttc acgttcatca agctggcggg ccacctcccg cgcaatatcc 60900
tgcacacttt gtccctggctg cgtctgaatg atgatctgcg tcggtgcctc aatccgttga 60960
acgggcgaca cagtggctgc gcgactcacc atcgtttcac cgcctttcgc gggaaatgcc 61020
aaagggtgca acggtggaag ctctgctggc gcggcagcaa caccatcat tccggcaaca 61080
acggcagcca gtgcagctgt atttctccgg ctggtcacgt ttgccgggcc gttgacaatt 61140
tcaggcccggt tttcaccgac aatgccaaac tgcccgcgcg ggatataccc accgctgtca 61200
tacatccccg caaaaccata tccccatgat gggaaaccac ctgatggcat catcacttta 61260
ccgtctgcat tcaccgtcgc aggttgctga cgcgtcacgc tttccggcag tttgcctttt 61320
gcagcctctt tactgacaat accgagtttc tccagcaacc aggaaacgcc ggatttcagg 61380
gagtcacagc gatgcatgac catattcagc ccttcgcgca gtgcctcccc gaatcgtcgc 61440
cccattgccg ctgcgtctg cagttcggca gaggtcgact taacgggcgt cagcagatca 61500
gtaaaccagc cccacaacgc ctgcactttg tcgccaatcc actgaaacac aggettaagt 61560
ggttcgaatg ctgcactgat gggacctgcc gccgttttga atccttcac cagccaccg 61620
agaaatgcgg tgatgggttg ccagtatttc cagacaa cca gcgccacgcc cgcagtgca 61680

gtaaccacaa gacctatcgg actgagcaga gcacctaaac gaccagatac ggcatacagg 61740
 gcaatgcgca acatcgccag cgggceggat gcgagcacac gcagcaccgc gcctgcggca 61800
 gccagcccac cgcgtagtgc tgccagtgga ttcataaaca tcacagcaac agcacgtaaa 61860
 ccggataatc cagaccgcaa aagtgaacc ggcgcacctg ctacagtttt caggacattc 61920
 cccgtcagtg atgccgtgcg gcgcaaagac gacaacggcg cagt aagtaa acccgagcg 61980
 ttgcccgatg aagcaagccc gcgtcgagc agtgccagtg gtgcgccagc cagccaggac 62040
 aacgcgctgc tagttcgggt tactgctgcc gtaacggaag gtaacgtttt gatacccagc 62100
 acagagaacc ccagacggat gactgccagc ggccccagca ctgcagccag cggcaccgct 62160
 aaggtgccga ggcccacggt aacggcagcc accacagcgg ctacttttcat cagtgtgccc 62220
 gtcagttccg ggtagcttc caccacacga cgcgatgctc ccgtgacgct tttcaccatg 62280
 tacagaatat ccatcagcgg ctggcgcagc gtttcgcccc ggctgctgaa ggtgttctgc 62340
 gctccggttt tgaccagcaa ccactgcgca gaaagtgagt ccttgttaat gtcggattct 62400
 ttctgcatgg agccgagcgc atcattgccc gctgtcagtt ttagctggcg ctgcagttcc 62460
 ggcaggttgt ttgccagttt cgcgcgctca tcgccaaact ctttaccaaa caacatggtc 62520
 atggcagaca gacgcttgct ctgoggcagt gcgttcacct tctccagcac acgctggata 62580
 gttcccatcg catccttcgt catctgcttt tcaataactt caggattgag tttcagcaga 62640
 ttcattccctt caaagaaact cttgctttgc atgggtggcaa tggacaattc acgcaccatc 62700
 gcgtttgctg cactggctgc aacctccggc gcagcgccca gtgtcagaaa ggtggaaccc 62760
 agcgccgccc ctttacgata atccagacgg tcagccacac cgccagacg ttgcatgaca 62820
 tcaataatgt ctgccccttt cgacatggcg ttatcatcca gatagttcag cgcattaccg 62880
 agctgttcaa tattgcgggt agggattttg tagagctggg cgattttccc cagactttct 62940
 gacagttcat ccgtggcgag ctcaaaggct gttgccgcct ttgctgccgt actggcgaag 63000
 gccagcaggc cacgtttctg gtcttcccag ctgtcgtcag ggtttgcgac gttcatgcgc 63060
 gcaccacctt caaccagtgc agcgaagtct accgcaccgt tttccatcgg caactgttcg 63120
 ctggcagcct tgatggcatc ctgcatttca taaaaacgtg cagtgcgggt gccattatcg 63180
 tcacgcagac cattgacctg ctttgccaca ctttcatgg catcttccat gctggtatag 63240
 ctttttactg ccgccatcac tggcgtcccc attgccagcc ctgcgcgcgt ggtggtggct 63300
 ccggctcctg cgatgcgac gcgcacctcc agcgaacggg cataactggc acgcgccaca 63360
 ttcattcctg gctgagcttc cccagtcgc ttcagccgcg cctcctgttt cgacagttcc 63420

tggttataac gtgatgtttc acgggctaaa cgggcagttg ctcccgcatc atctttcgca 63480
gaaattcccg cccggtacag ttcagcacgc acaagcgccg tctgctgctg cagctttttc 63540
tggcgttctt ccaggcgctg aacagccagc cgttgacggc ccagagcaac aacctgacgt 63600
tgcaaggcg gccccatcgc tcccagttcc tgactgagca aattttgcacg ctggcgggca 63660
tagttcagcc tgtcgcctaa tttctgattt tctgcctgca gcttttcggaa gctgtccaga 63720
ctgctcccg cctgatcaag ctgctttatt gcatcgcggg attttttgac agcagcagcc 63780
agttctcttg aactggcctg cgcagatcga aatgggcggg tgagcttgct aaccgcatta 63840
agaatgacct gcagacgcag gttgttatca ctatcgcttg gcccgcttc tctgaatcgc 63900
tttataccgc cattccagca cttcggtcag cggcataacg tcagtaacgg atggcggcca 63960
gtgaaaaatg gtggcgatat ctgccaccag atcgtcaacc gtcaggctgt cggtaaaccg 64020
gcaagcacgc acttcttcaa caaaaaagtg acaacctcaa ccgacatggc agtgagatct 64080
gocgggtcca tctctgcaat ttctgtgca gtcagtgccg ggctggagat gcgggggac 64140
acggtcatca tcgcgttcac atccatatcc ataatggcct gcaggcgctgt accgcgcagc 64200
gcaccggact gcggtttacg cagcacaatt tcggtgattt ccgtttttcc gcgcttgatg 64260
ggagtatcca gttgaatggt cttttcagtc ttcttatcgc tcattttgct gtctgtataa 64320
ttgggttctg gcgcggtatc ccacgccgtt cagatacatc agaggccgag ggcgttacgg 64380
tgcgcttcca tcagggtccac accgtccaca atttcacca tgttgatcag gtccacttca 64440
tagagcaoct caccattgat ggtcagcttc gcgtagctgt tgggtactggt cactttggtg 64500
gtgttgcttt cgcccgctct ccactcgccg gaatccactt ctttgtgacg tccacgcacc 64560
acaagctcca cggcctgcac ttccccggtc tcatcacgct gaatagagcc ggtaaagcgc 64620
agctggatgc catccaccgt ggctttgccc atctgcttaa acagcagcag ctcagtacca 64680
ccaatggaaa attccgtatc cagtgcgccg tcatccagcc ccagatccac atccactgca 64740
cccggcattc cgccgccgcg atacttctca tatttgccgg taaatttcgg cagcgtcagc 64800
gactcaacga tcccctgcca gttgttcccg tcattaaaca ggttcagggtg ttttaatttg 64860
cgtggttaaag ccatgttgct cccttacgcg ctgacctggc tggagaaatt caccaggtag 64920
tgatcggtga tgcgctgacg cagcatcagg ttttcaagtg gcggcactgg cgtgtagtcg 64980
tagtcgatgg tgagttttcc ggctttcagc gtgtctttgt cgttcaccga ctcatccagc 65040
cagcaatcac caccaatgag atagccctga ctgaccaggc tgcgcatttt ggccgggata 65100
ccctcgataa tgtcgcgggc cagcgacgga ttcagcggtt tatccaccgc ccacatgtgc 65160

gcttctgcc a tcgtgtccgt cagcacctgc gccgtgcggg tgtagtttt c gaaggcaaag 65220
agcgggtcat cactcaggca ggggaaccc cagaagcgga aaccgtctt t acgcacaagc 65280
gtggtgacgt cgttctgggt cagcagtcgc gcacggttg ccgggtcct g cagatcccag 65340
aacacatcag cagaaattcc ggtgacaccg ttacgcacca cgttggaag gcttttctgc 65400
catccggtct gctcgtcaat ttggcgcg agaccaagcg cagggcggt ggcatatgcc 65460
gttgcttcgg cattcagcac agtgatccag ccagtaaagt caggccaga t cagcatccct 65520
tcgcgtggc tgaagtttt acggttaagt atcgctcct gtaccgtct t gcagccatac 65580
gctgacaggt aagcaaattcc acgcaggctt tgcgccacgc tcagcaact c agtagctacc 65640
gccttggtgt cgtggcctgg cagcgcgaga atgcgcggt taacgccaa g ctgtgactgg 65700
gcagataaca gggctttcat gcctgtttt ttaccttcag cgttactgc gccgatgata 65760
ttggtcgtgg tttcttcttc cgtttcacc tgcggcacac gcacaacaac ggtcacgggt 65820
tttgcctgg cagcgatggc atccagcgaa cgggccagcg tgcctgact c acccgcttta 65880
ccgctggcag tcagcacatc agtgatcagc acgggtttat taagaggaa a catttttgca 65940
tcggcatcat cgcctgtga gaccataccc acgatggcg tgctaccgt ggtaatggat 66000
cgggtgcctt cgttgacttc aacaacgcgc acccgtggg ggtaatcct g agccatagt 66060
gcgaacctcc tgattggatt aggtctgcc ctatgttgaa gtgattgtgc ctgacaaaca 66120
gctaagcgca gttgtaccgt tattcacaca aaatgacggg atttgtctgc tttcagggat 66180
aatcaaaata aagctgattc agggagattt attgttctta ttgcccga a attttcgata 66240
aatggtagaa acgcctacat caaaaatcag tgcaatacgc tgtcttgatt ctccggcctc 66300
gagtaaagc ccaatctgtg ccactgttc gctggtcaac ttaggacggc gtccacctac 66360
tctgccttta gcacgagctg cagccagccc tgcctggta cgttcaacta tcagttcgcg 66420
ttccatttca gccagggcac ccatgacatg aaaaaagaaa cggccattg ggggtgctgg 66480
atcaatactg tcagtcaggc ttcgaaatt cagccacgc tggcgagct cttctatcag 66540
cgtaacaaga tgccgcatac tgcgcccag tctgtccagc ttccagaca ccagcgtgtc 66600
tcctgccgat agtgtcctga gcagctttt cagccccggg ctgtcgga ct tggtgccact 66660
gattttgtcc tcaaaaatcc gctcacatcc cgcgcagttc agtgattgc gttgcaaact 66720
ggatttctgg tcatctgttg acacgcgtac atagccaata agcatgatca tttccctgaa 66780
taaaaaccgg agatgatgcc agttagctgt tacctctgca ttttcataaa cgttggtttt 66840
caagaaccaa taaatcgtgt ggctgggtgc ctataaaaat cgcagagcgg tgacgatagt 66900

ccgcataagg agctgttcgt tcgcaacatt cgaacgggtga cgttaaagcc ggtttcattg 66960
gctaataaag acgaagggga caaaattact acagagttga taccacagag atagtcagg 67020
ttcgcagggtg atacgggatt taacgcccga aagtctgcac agacacgato tgccgcccga 67080
caccattaaa ttgccccgca acgtgttata aatactactc cctgcgtttc ccgttacott 67140
gctgtcggta cgtttacgc attgtctgaa aggttatttg cgaagttata attaataatc 67200
cacgggcgtc tggatatgca atccagttcc ccaatcctgg cgttttgcc tctcgacat 67260
acgcgcgtaa ataagcctga aaccaaactt caccgcttaa cgctctcctc ttccccgatt 67320
tttacgcaaa aaatcatcac atgatcaagg gtcgtattta ttattgcatt ttcaaataga 67380
tattggtaat tattatcatt ctcatatac acttattcga tttatgacgt ggagagagag 67440
gattttctcat gcgtattctg tttgtcggtc caccactgta tggactgcta taccctgtgc 67500
tgtccctggc gcaagcgttt cgtgttaatg gccatgaagt gctgattgca agcgggtggaa 67560
aatttgacac gaaagcagca gaagctgggt tgggtgtatt tgacgctgcg cctggtttcg 67620
attcggaagc ggggttatgc cgtcaggagg cattgcgaaa agaaaataac attggaacaa 67680
aaatggggaa cttctcattt ttcagcgaag agatgaccga ccgctggtc gcgttcgccc 67740
gacagtggcg gccagatctc atcgtctatc ctccccttgg ggctggttga ccactgattg 67800
ccgctaagta tgacattccg gtagtaatgc aaaccgtcgg cttcggtcat acgccctggc 67860
acatcaaagg cgtgacgaaa tcactttcta acgcctaccg ccgccatggg gtcagcgcgc 67920
caccaagaga tctggcgtgg atagacgtca caccgcccag catgagcata ctgcaaaatg 67980
acggagagcc gggtatctcc atgcaatac tcccgtataa cggcggcgcc gtctgggaag 68040
aatggtggga acgtacacct gatcgcaagc gtcttctggt tagcctcggc accgtcaaac 68100
cgatggtgga tggcctggat ctgatttcct gggtaatgga ttctgccagc gaagtagatg 68160
ccgaaatcat tctgcatctt ccggcaaacg cccgctcgga tttacgttct ctgccgccga 68220
atgtccgtct ggctgactgg cttccgatgg gcattttcct taacggcgcc gacggtttta 68280
tccaccatgg cggcgcaggc aacactctga cggcgtgca tgccggcatt ccgcagatag 68340
tctttggcca gggtgccgac agacctgtca atgcccgcgc cgtggctcgag cgcggtatgc 68400
gcattattcc cggttaagagc ggacttacga gcagcatgat caataccttt ctcggtaatc 68460
gcgcgcttcg cgagacgtcg caggaagtcg cggcggaat ggccggcccag ccttgcccga 68520
ccgaggtggc aaaaaaactg atcgccatgc tgcaacacgg ctaaccgcgg cagcgcaatg 68580
acaatatggc ggctgagccc agactgtgtc gccataactc atctttcacc gataaggagg 68640

cttaatgccc gcgactcatt ccccatgcc cgctcgtgcc tggatagttc gccttgccccg 68700
 cgtgtgttgg gaacgtaaaa cactgagcat cattgtcatc gtagcatcag tatcgacccat 68760
 ttactgggt gcgctgacgc cgctaataac gcgtcaggcc gtcaatgacg cgatagcagg 68820
 cgatacgacc cgctgccgt tacttgccgt cgccctgctg ttaattgccc tttttgattt 68880
 tatcggggaat tacgtgogcc gcggctatgc cggagaactc tcgttgtggg ttcagcatac 68940
 gttacgtagc cgtgcgttcg acagtattca aaaactggac ggcgcaggcc aggacgcctt 69000
 gcgtaccggg caggtcattt cgcgtaccaa cagcgatcct caacaggtag acaccttgct 69060
 acagatgtgt ccggtgccgc tggcgggtgct cacttactat gtggccggta tcgcgggtgat 69120
 gctatggatg tcgccatcca tgacgcttat cgtgatttgc gtactggccg cccttgctat 69180
 taccgccctg cgcgccgctc gccgtgtttt cgcgcaaacg gggcttgccct cagaccggct 69240
 ggcgcacatg acggaacata tgcgcgaagt attggaacag atctcagtgg tgaagtcctg 69300
 cgtggcggag ttacgcgaaa cgcgttgggt cgatggtcag tcgcggcaga tgggtgcgggt 69360
 acggatcggg gccgctatct cgcaggcgat gccgggcgca accatgctgg cgctaccggg 69420
 gatagggcag atcgtcctgc tgtgctatgg cggctggtcg gtgatgaacg ggcgcacatga 69480
 tctgggaacc ttcgtagcgt tcgcgagttt tctcgctatg ttgaccggcc ctaccgcgt 69540
 actggcatcg tttttggtta tcgcacagcg cacacaggcg tcggtagagc gcgtcttcgc 69600
 gcttatcgac acgcgttctc gcatggaaga cggtagtagc tcggttgagg gtcagattat 69660
 cgggctggac gtggagaaga tgagtttcca ctacgacaac ggtaaccgta tcctcaatga 69720
 gatctcgttt tccattcacg ccggtgaaac cgtggcgggt gttggcgcac ccggctccgg 69780
 gaaatcaaca ttgctgatgt tgctggcgcg cttttacgat cccacctccg gcggagtatg 69840
 gctcaacacc actacgggtc aacagaatat tcgcgacctg aaactgacgg cgcttcgtcg 69900
 tcgcgttggc gtagtttttg aagacgcgtt tctgtttgcc ggtacgggtg cggaatacat 69960
 cgcctatggg caccgcgaag cgactcagga cgacattcga cgcgccgccg atgccgcagg 70020
 cgccagcggg ttcacatcat cgctaccgca ggggttcaac acccgactga ccgaacgcgg 70080
 aagcaacctc tccggcgggc aacgccagcg tattgcgcta gcccgggcac tgattaccgc 70140
 gccggaactg ctgattctcg atgacaccac ctcggcggtc gatgccggta ctgaagcgga 70200
 aattaacacg gctcttggtc gttatgccga taatgagcat atgctgctgg tgattgcacg 70260
 ccgccgttca aactgcagt tagccgatcg gatcgtcgtg ctggataaag gccgcgtcgt 70320
 ggatatcggg acccaggcgg agctggatgc aaggtgtccg acgtttcgtc cgctgatgag 70380

cggcgagggg gattttctcg cccttgcccc ggcagaacaa cgtacgctat ggccaacaac 70440
 gcaggcggta aaatccgacg acgcgcatga gcgccagaca accgccggaa aaggttttgt 70500
 cgaccggatg acgcgcgttc cggaacgcgc cgtacagatg gcgctggcag gccacgggag 70560
 tcaagtctca tcgctgctga cgccagtagc ctggatgttc gtcacgcccg ccctgcttat 70620
 cgcgcttgat tccgccgcag gcgttggcgt gctggtgctt ttgcagcgcg gtattgactc 70680
 aggcgttgcc gcaggggata tgtcgactat tggcatatgc gccctgctcg cgctgtgcct 70740
 ggtggcgatc ggttgggtgct gctatgcgct gcaaacgac ttcgccgccc gcgcggcaga 70800
 gtcggtacag catacggtagc gcttacgcag ctacagccac ctgctacgcc tgagtcttcc 70860
 ctggcacgag aagcacatcg actcgcgtct tactcgcatg accgtcgacg ttgattcact 70920
 cgcccgatatt ctgcaaaacg gtcttgccag cgcgccacc agcatcgtga cgatggtcgc 70980
 tatcgccgcg gcaatgttct ggcttgacct cattcttgcg ttaacggcat taagcgccgt 71040
 acctgtagtg atactggcga cgtggattta ccgcggtttg agctcgctg cttacgcca 71100
 ggcacggctg gaaattggta aggtgaacag tacgcttcag gaaaaggctc ccggtatgcg 71160
 ggtagtgcag tcacacggtc aacagaagca ggaagccgcc aggctacggg cgttatcaga 71220
 caacttccgc gccaccgcg tcggggcgca aaaatacctt gctgtctatt ttccgttcc 71280
 gaccttctgc accgaggctg cctatgccgc cgtgctttta atcgagcga cccgggtcgc 71340
 cgaaggcgaa atgacgccg ggatactggc ggcgttcttc ctgctattgg gacaatttta 71400
 tggcccggtg cagcagttgt caggcattgt tgattcctgg cagcaggcga ccgccagcg 71460
 caaacatatc aatgcgctat tggcgactga ggaaacggag aatattgaac cgtcctccat 71520
 aacgcctggc actggcgcg cgctacgtct ggaggcattg acattccgt atccgaaaa 71580
 aacgcaacct gtgcttgata atctctcgct caccattccg ccaggaacgg tagtcgcggt 71640
 ggtcggacgt agcggcgccc gcaaatcgac gctgatcaag ctgctggccg ggctctactc 71700
 tcccggcagc gggcaaatcc gtgtcgggtga gcgcctaatt gatgccgct cgcttagtga 71760
 ttatcgtcgc cagacggggc tggtcaccca ggatgtcgca ttatttagcg gcgataatgc 71820
 cgaaaatatc cgctattcgc ggccagacag cagcgacacg gaggtggaga tcgcgcgcg 71880
 acaggcggga ctctttgaaa ctgtgcaaca tctgccgctg gggtttcgta ctccggtcaa 71940
 taacggcggc acggatctgt ccgcgggcca gcgtcagttg attgccctcg cgcgcgcca 72000
 actggcacag gcgcacattc tgctgctcga cgaggcgaca gcacgtatcg accgcagcgc 72060
 cgaggagcgc ttaataacct cgcttaccgg agtgacgcat accgagaaac gcatcgcgct 72120

tatcgtcgcg caccgactga ccaccgctcg ccgctgcgat gttattgtcg taatcgataa 72180
aggatgtatc gctgaatatg gcagccatga gcagttgata gcggctcatg gcctgtatgc 72240
tcgtctgtgg cgggccagcg tcggccagac acgcgatacg caaggagagg tcgtaggata 72300
gtttttatcg ccacgattta cgcaaaagaa agcccgaag cggctgttcc tgtaacagcc 72360
gctttagcta ttgatactga ccgaaatata aacgagatgg aatacaaaga atgagactga 72420
gcccgcccggt cgctcctgtc gctatacaga ccgctacgcg ccttcgccgt caactcgccg 72480
ccggaagcca ggttgacgct tctcacttct ggcgagaagc aaactcgctc gcgctgccgc 72540
tggtgacagc cattaacggc gcagacgatg aacgggaagt caccttcctg tggcgtgccg 72600
cctctcctct gcgggggggtt tatgttcgcc tgaaccgtgt caccgataaa gataacgtgg 72660
cgaaaggat gatgacgcaa ctgcccacaa cggatatctg gcatctgacg cttcgcttac 72720
cggcgtccta ctgcggttcc tatacgatgg tcgaaatacc accgaaaacc ccggacgaga 72780
cgggtgttga gcttggaagc cgtttcgcct cccttgtcgg gaaggcggac cactgaaca 72840
gcacgccggg aataaatgtt cggggcaatg cgcaggagtc cgttctggcg ttggatcatg 72900
ccccggcaca ggaggagtgg tcaggctgtc gcgcttacgc cgggcagctt ttcacctcag 72960
aacatcggct cgcgggacaa cgtcgccgtg tgcggctgta tcttcctgac gttcctgtcg 73020
aacaaccgct gggcttgctg gtactcacgg atggcgagat ctggttcgac catcttgggg 73080
taagcgccgc cattgacgcc gccatccgca gcggacgat cgcgccggtg gccgtactcg 73140
gcgttgataa tatcaatgcg cgtgaacgcg tcgcaatcct cggcggtcgc cgcgagctgg 73200
tgctcgacat tgocgaacgc ctgctgccaa cccttcgcgc caaatacccg gaacgacagt 73260
gggcggaccg tacacaaacg gtgctggcag ggcaaagcct cggcggcgtg accgcgctga 73320
tggcgggccg ccacgcgcca gagagcttcg gcctggtgct gagccactcc ccctcaatgt 73380
ggtggacgcc ggacaaccgc aatcgccgc cccatttcag cgcagaagag cgtcatggg 73440
tcagcgaaca tgtgttatcc gcgccttcgc cagccgtacg tacgcatctg tgcgtgggat 73500
cgctggaagg ttcgacggtc ccgcaggtca aacagttgca tgaaaaattg cgcgccgccc 73560
gtgttgaaag ccattgctgc gtgtacaccg gcggtcacga ttatgcctgg tggcgcgcg 73620
cgctgattga cggattacgt ctactgcccc gataaaactt cacctgcca aaaggaataa 73680
catccgatgt atggctcgcca gtaccacaac aagtgcatac gcgtggcgct attttttagtg 73740
agtttttgtt ttagcgcgct gagttatgcg cagccggata tgcagccatt agggccgaat 73800
atggctgata aaggttcggg atattacat tttagggtca atgactttca atctgccgat 73860

ggcgcaagac attaccgggt atggaccgct attcccaata aagccgcccc gccgtcgggt 7392 O
tatacctgtct tatatatgct ggacggcaac gcagtgatgg acaggctgcc ggagacgctg 7398 O
ctcaaacaac tggcagacca ctgcgcgcg gtgattgtgg cgattggcta tcagactaac 7404 O
ctgccgtttg atcttaacgg cagagcttat gactatacgc cggcgccggg aatcgatcgc 7410 O
gatgacagtg aaaataaacc gcgttttcat cgtaagaccg gcggcgggcc agcgttccgc 7416 O
cagctactgg agagacatat cgcgcgcgag gtggaacaag gaataacat caaccccgaa 7422 O
cggcgcgga tatggggaca ttcttatggc ggctgttcg ttttggactc ctggctgtcg 7428 O
tcataccttct ttcatatcta ttacagcgcc agcccgctac tcagcagga taactttgcc 7434 O
ctgttgaatc gccttacggc agtgaagccg tcgccgttct gccataaaaa actcatcata 7440 O
atggaagggt cagcgtcgaa tggggatagc aggcaacgcc agatggccga gctcctgaa 7446 O
aaagttcagg agaccgtgag aacgcttgag aacaacggcg ttaacgcggc cctgcagcat 7452 O
taccggggcc tgggccacgg gcccatgttt aacgcctctt ttcgtagtgc attgctgggt 7458 O
atcagtcgcg aaccggcaag ctaagaacca cgctgccatt aaccgctgc cagaatatgc 7464 O
ccgcacagcg cgggcataac ccatcaaaac gaggccgtca caccggcata ataagcccga 7470 O
cccggttcgt tataggtatt tgccccttcg gcggagcgat agatctgttt atcgaagata 7476 O
ttgctgatac cgacattaag acgcaggttc ttattgatat cgtagttaac gttagcgccg 7482 O
accagtgagt aagccccag cgctttcccg gacaatcctt tggctctctc actacgcgac 7488 O
tccgcatgtg ttcgcggttt ttgcttgccg tataacgtcc agttgacgtt agcggagagc 7494 O
gcgttggtga tagtccagtc gaggaaggta ttcaccgtat atttcgggat tatcgataag 7500 O
ggattaccgg tatctttttg ctcagaagtg atcatataag tcgcattgggt attccagttc 7506 O
agacgggtccg gcatcagcg aacagccatg ctggcttcaa taccttcaat cagcgcttta 7512 O
ccgcggttct gccactgcaa tacataagcg ccagatgcgc ttctgccaat aatctgatca 7518 O
cctgcgacaa tcttattctg ataatogtta cggaaatacg ttacgcttgc gtgataatcg 7524 O
tctacggtaa attccagccc aatctcttta ttgatactaa tttcaggatc gaggttctta 7530 O
ttaccaacca ggtaacagcc gccgcagta atatcttttg gacaaccgtt gcctttcgaa 7536 O
tagagtaa at accctcact ggtttgatac aagttcggtg ccttaaaggc cggggcaata 7542 O
ccggctttca ccttgacgaa ttcacctaac tcctgggaaa ggttaagact gggactaaaa 7548 O
ttactcccg attcgtcaa atagtcaaaa cgcagaccg gaataatatt ggtaccggcc 7554 O
atgggttcga tattatcttc aacgtacagc gcaactgattt ccgatttatt tttactgcta 7560 O

cggttagccg ccgaaccggg aatcccggcg atattgctat ccttaaccgt cagactggta 75660
gaggaaggat cgttcagctc atcgcggttc cactccgcgc cgacggtgag cgtttgctca 75720
aatagccata tcaccgggac attcacctcg ccgctggtgc gatacgaggt caggcggtta 75780
gtggtgaacg tctggtcggt ggtaatacgc ccctcgccgc cgccggagag tccctcattc 75840
atgcgggtat tatcggtttt ttcatagtag aacccaggc ggctttgccc ccagccccag 75900
atgccgttat gagttagacc gtaattctgc cggtagaggc gattggtctc ccgcccggac 75960
tgccgcagac ttttggtaac cgcgtttgaa ttactgtttt gcgtatcgcc ggcatagata 76020
ttcccctgcc gactgtatcc cgcttcaaaa tcaaggattt gctgcggggt cattttccat 76080
gagaagacgc tattaatata ttatttggtg accccctccc gtccggcggc atttttggtta 76140
ccggcgagg agttaatata ccagctgtcg gcacggttc tgtagagatt accgtacagg 76200
cgcatcgtca acgtatcacc agccaacggg ccgctaaggc taaagttacc ccgccgggtg 76260
tcaccttctt tgctgctttc cgggtagttg gtataaagcg acagcgagcc atgccagtcg 76320
ttagtggggc gtttggtgat gatgttcacc accccgcctg cggcacggga gccatagcgc 76380
gcggcgggcg gccacggat catttcaata cgttctacca tctccggcg caccagttc 76440
gtatcgccac ggggtgctcg ttctcgcgc cagctatagc gaaccgaatt tcgcgacgtc 76500
accggcacgc cgtcaatcag cactaaggta ttttccggcc ccataccacg aatatcaatt 76560
tgtcggttat ttccgcgct ccccgaggcg ctattgctgg taagattaac ccaggcatc 76620
ttacgaataa tatcggaag atcggttaac ggaggattct tctgaatata gtcacgagta 76680
ataatcgaac cgcccggtg ttgctttaat acttgctcgg cagtggattc aaccactatc 76740
gtttcgccgt tgctgctgt agattctgct gctgataatg gactattaat ccctgtagaa 76800
accacggtta ttaaccagat gaacttctta actctcatac ccattcccta aataatgtct 76860
aaagtagcgc tggtgccctc aagctcacat ccttgccagg ttacggctat atagtaatta 76920
ttatcatatg ctaatgataa taattatcat tcaattaaga aaaaggcaat ctttcgaccg 76980
caaaatctgg tcataagaaa acagaaacgg gatthttgcaa tatgactctc tgtccgggct 77040
ccgctttgcc aataaatccg ggaagggtgg cagaatgcgc ctactgagcg gaggttttac 77100
aaaacaggaa tagataaaat aaaactatth ttcaaagcgt taatgataat aaacaccag 77160
gtaagatggt atagtgcgt tcagagttca ccggcgcttc cctgtcgacg gcaaaccggt 77220
cttacagttt gccgtcagg taatggcgg atcggatacg attgtagtca ttcgatatat 77280
gacaatgaaa gtgatgttg cgccaaaata caaagcgct ggtaataatt atcaggcgct 77340

ttgcagacag aaaacccatca aacatcggtt tctcgttctc caggatctac tggaaaatat 77400
ggcaaccac agttagtgga ttttactgtc gggctcttgcc agggatggtg tgttaccccc 77460
aggcttttta aaagacctcg taacagcact aactcgctgg gtgtcatttt ttgctttggt 77520
tcacctctt taggtggacg aatatcctcc tgactagtag atgtaacaca ataacctttt 77580
aactctatcc acttaggctt aggggggggc cttaggatcg ggaggcgctg ggctggcaac 77640
gcacgaacag gcacttatac atccaggcat aacgttttcc ttttcaaaca attcgcttta 77700
gttggaagtt ctacttgaga aaatagaaat ggttattcag atattttttac cggcgcatac 77760
tcctgtaata ataaaagata ctgtaaataa ttaactctca gctactattc agtagcagat 77820
tgttattctt acattgcttt tatttcagat ttacgtcaaa tagggctaaa tatttttact 77880
ataaaatacg ttaaaaagtg tttgtgtact tgtagacatt gtggcgctct cggtagcga 77940
atcggttagt gtacaatctt taaaactggg atttcttaaa ttagcctcag acaaatcagc 78000
cccgctccagg ttctagtagc taaaactagc cttttgcagg tttgcccag ttaagacagc 78060
gccttcocata atagcagcca ttatagtagc accctttaat gtcgcaccgc tcatatcggc 78120
acgtataagg gttgagcctg aaacattagc gtgatccata ttgcgcaccg aacaattaca 78180
ttctaccatg ctacagccta acagacttgt gtgttgtaaa ttggcgccag taagattagc 78240
gcgatcgagg gtagcgccac acataatact atottccaga caggcgttcg ttaagttact 78300
gtgcgcctaat gatgctcccg atagatttgc gcccttaaaa tttgcaccgt cacaatccgc 78360
cataaacagt attgccccct ctaaactctgc gccgcttaag tctgcgtcac ataaattttc 78420
tgccgtcaga tttgctccgg taaggacagc gcccttaaga ttcattgcctc cctgggcagt 78480
taatattaca gaatcctgag gaagagaaaa ttgcacatctg aatagtaaag ctcgacatat 78540
tttttcaaaa gaggcaagcg gaatttctct tgtctcagaa ttgtcgctt tactgactcg 78600
tacaataact tgtccagctt cgttattctc accaggaaga ttaaattcga cacgacaccc 78660
atccacatca tccaggatga tgttttctgg caacggagca cctctgtcag acattgaact 78720
tttcaatggt tcagccatag tctctatcaa ttctgatat tgtgtttcat ttctccgacg 78780
tatcccacca caggtaaaaa agttaatgat atgttgacaga atggtttttg gcgaggtagc 78840
ttgccgcata gcagcagaag tccccgcgcc aaaagcagat gtagccatac cagccagact 78900
atcgagtga cgctgcatat attttctccc agagagagca acacagtaca tgataaaatt 78960
tatcattaga tttgcattta gaaataaggt gaatacccc tttgcgtctg gttacataat 79020
cacgcatcac gacgcgttgc tgtctgactt acacaatacc agccaaataa atatattggc 79080

ttataactcgt cataacttcaa gttgcatgtg ctgcggctgc gttccctcac cccagtcact 79140
 tacttttagta agctcctggg gattcgctcg cttgcgcgct tcctgcaact cgaattatatt 79200
 agagtataaa cattatttaa aataataaac acggcattcg ttttaataact acgttcagga 79260
 ctcatccac tcattagcag aaaatctatt aaaaagcgcg ttcaggcggt ttattgctgc 79320
 cattgataaa ctgtttaaca acgtcgtctg tacaggcctt cttcggtgcc tttacgttta 79380
 actcaatcag gctaccgtct cggttataag tctatcgagt agtagggacg tagtatgacg 79440
 atgcagcaaa gtgatatgga aagatataat ccattattaa tgttaaaaga agtcatggcg 79500
 cagacgcctt atcgccataa acgctgggga gagcgtaagt ttcgctataa atttgtatta 79560
 cgttgccctta ttaaccccg t aacgacaatt aaatacttca atgaattatg ccatctgtct 79620
 cagcccagaa cgctgattat tcatcgcca ctgttgccgg caaaaatcca gcggccctat 79680
 ttgtatacgg gacttagcat acgttgccgg gcaaaggcta ttctggaaca ctaccagttc 79740
 gttcagtcct ttccggaaag taaaattaaa aagatccttc tgtccgagga acaaacttta 79800
 ctgcgtcacc tggaaggaaa aaacggtgct ctggtagata tctactgcgg tccctgtggc 79860
 tatgacagag aaggtgaact gacattaacg ctgtgcttca atgatacgcc gttggcacgt 79920
 ttatcatttt ctttatccg ccatgaaggg aagcaaatag cgctgggtgc cgggttacag 79980
 gggcccagta aacatatcg cccacaagtc atacgtaacg ccaccaaaga ttgttacggt 80040
 ctctttccta aacggatgct gtatgaagca tttgcgacat tgatgcaggc ctgtaatgtc 80100
 gacgagattt acgcggtaag tgaaaacaac catgtttatc gtcaactcag gtacttattc 80160
 cagaagaaaa aaacttttgt ggccagctat agtgaattct gggagtcgct aaacggcggt 80220
 aagaaagggtg cttatatca tctgccatca caggatgatgc gtaaagcgcc tgaaagtatc 80280
 cccagcaaaa aacgcgcaga gtatcggaag cgctatcata ttctggatac aataatacaa 80340
 gaggttaaca gcctctcccg gtagaactat ttcatacgcg gatgtgcaga tctgtctacc 80400
 gttcagcgga tctctttgaa atctgtatcg ctactggatg gttaaataca gaatggcttg 80460
 cgagtgaaaa gcgcggcatt aaaccgtcgc tttcattcat gctatgatca acatcttaat 80520
 cttattccct tcaccataac gtcatcgatt agcatgttaa ccattaaata caagctaaac 80580
 atttgtcaca tttttatttg gttgagcaaa aaaataatac aaaatagaat tttcagtaag 80640
 ctaagtcagg agtttttagtg aaaatacaag aagttaagcg tatattaacc cgctggcagc 80700
 cgtcttcctt taccctatac cgggaggtgt ttacgcaata cggcggtagt atcaatatgc 80760
 acccagatat tgtggattat tttatgaagc gccataactg gcattttaaa ttcttcact 80820

ataaagaaga tgataagatt aaaggcgcct actttatctg taatgatcag aatattggca 80880
tcctgacgcg cagaaccttc cgcctatctt cagatgagat acttattccg atggcgccag 80940
atttacgtg cttcttgccc gatcgacta accgactttc ggcgttgcat cagccacaaa 81000
tacgcaatgc catatggaaa ctgcgcagaa agaaacaaaa ttgtctggtc aaagaaacgt 81060
tctcttctaa gtttgaaaaa acacgcgcta atgaatatca gcggtttctt aaaaaaggcg 81120
gaagtgtaaa aagcgttgct gattgttctt ctgatgaact gactcatatt tttatcgagt 81180
tatttcggtc tcgtttcggc aatacttcat cctgctatcc cgctgataac cttgccaaact 81240
tttttagtca actgcatcac cttctgtttg ggcataattct ttatattgaa gggataccct 81300
gtgcatttga tatcgactg aaatctgaaa gccagatgaa cgtctacttt gacgtatcta 81360
atggtgcaat taaaaatgaa tgcaggccac tcagtcccgc cagcactata atgtggctaa 81420
atattagccg tgccagacat tactgccagg aaagacaaaa aaaattgctt ttctccatcg 81480
gcatactaaa gcctgaatgg gaatataagc gcatgtggtc gaccccctat tttaccggga 81540
aatcgatttg ctaaaaagaa agcctggacg taaatatgtt tttacgccc aggtttttca 81600
taaaccctga taaaatgata aaaaacgaaa atttaatcag aatttaaaaa ataagttaac 81660
caccatataa tcataatgac aattactcga aattcactta cactatgctc ggttttatgg 81720
aattgattaa cacggtatgt tacagataac gtgctaataa gcgtgcagcg gttatacatt 81780
ttcatatgtg tgtgtcatta acctggcgtc aggaacagat gatgatgaca actaccattt 81840
tatctcttct ggcttggcat accgtcagta gattaaagg gttagccttgc tttatggcat 81900
tacaaaaatg tgggtgaggt ctatgctcaa tgtatacgtt atttgtaaca acgctcttgt 81960
gcataaacia tacgttattg ccaacagcac tgaacgggta cagtggttct tgctgacaac 82020
aggcttaaag atcgtcttaa cacgggatac ctgataactg gattatatta tgacacatgc 82080
agactggctg attcttgggt atacaactgt tattattatt tttggtattg tatgttatat 82140
cggattgctt aaattgataa cgaaaggcaa gcatgaaaaa taacgcactt accgggaaga 82200
atatactctc aggagataaa atgcttcggc aatgatatga caccactgcc gaaatgctat 82260
ttttacagaa atcaatcagg tattgagggt gatthttatca tagccgcgcc agcgataatt 82320
caacaacgag agcagccaga atagcacaaa agcaccact acccagaagc ccacattccc 82380
catatgatcg ttaagcgtgc tgacggctct ccaaatgtt ccgcttaact gtaacgcac 82440
atcaatcaac cccagcgtt caagcccgcc aatcgccagc gcgacaatga cggatgcggc 82500
ggtaatgggt atattataat aaagcttacg taatggatgc gagaaagccc aaccgtaagc 82560

gccgaccatg acaaagttat ccaggggaatc taccagcgcc atcccggcgg taaacagcac 82620
aggaaaaatc atcattgacc agagagatag cccctggtta gctgctgaag cggaaatgcc 82680
cagcaaccca acctcggttg cggtatcaaa tccaagcca aacagaaaac cgacaaaata 82740
catatgcca ctggaagtga ccaaacgaaa cgtacgctga aatatacgcg tcatcagccc 82800
gccaggtatc gcctcgtcac gcgccccac tgactcgccg cgggtaaccg agcgaaattg 82860
ccgccagacg ttgaacaaaa taaacaggtt gagcagggcc atcgccagca gaaaaaagc 82920
ggaaacagcc gtaccaatca acgaaccata ttgatgcaaa acatcaatac gatcgcgaaa 82980
tgccatcgac gtcacaacaa tcgccagaca tgccagaacg acaatggctg aatgacccaa 83040
tgaaaaaac gccccacgc ctaaaggcgt tttaccctgc tgcatacagtt tacgggtgac 83100
ggtatcgatg gctgcgatat gatcggcatc aaccgcatga cgcagcccaa agctatacgc 83160
cagtatggct gcgcttagca tgactgcatg gtgatgaaaa acacagaacg cccaaatcta 83220
ggccaggatg ttaaccccgca caagaaagac ggttaatgct attccccgtc gtttagtatg 83280
attattcatg cccctgcacc cactatagtt ttaattaacg ctacggtttg tagggggaat 83340
gtatgatcat ttgattaaaa cgtcacacct caagatgcga ctttttgtaa acgtgcttta 83400
ccgctgacac atttgtgcgc attactgagg gacaaggctt aaaaagcgta tccgaacgta 83460
taaccctccc aacgcttcgc tacgggaaaa atggggatga gtacggtgca agcgtgcgat 83520
atcattgacc aaagccagac caatgccgc cccggccaca tttcctacgt tatcgagccg 83580
gtggaacggc tgtagcgcca gatggatgtg ttcattatca atgccggggc cgctatcttc 83640
gacaaccagc gtcacggcat cgccatcccg ttcaagcgc gcggtgacaa tgccttgctc 83700
aggcgtgtat ttcagcgcat tatccagcaa gtttcgcac agctcgctaa gcagtacctc 83760
atccccctcg atccacatcg ctctctgttc gccttcgtag ccaggtcga tatgtttact 83820
gcgcgcctgc gccaggcggg taaagcagcc gctctgtacg atatcgta gattcaccgg 83880
ggaaaaacgc ctctcgccct gctctttatg ctttaccgca gaaagttgca acaatctttc 83940
cgtgagctga atggtgctat ccagcgttac gtcatacgcc tgcagacttt cgtaccagtg 84000
atgaggggtg tggttggtta acgccaccgc gcctgcgtt tttaacaccg ccagcggcgt 84060
ttttaactgg tgagaagcat cggcgctaaa gcgttcctgc cgggaaagga tgccgcggag 84120
cctgtcaatg tagcgattaa acgccacgat taacaagcgt gtttccgacc acggcagcag 84180
ttccggcagc ggcgttaaca gaccgggttc gcggcgtaac attaatgacg aaagttgacg 84240
catagggcgc aggatccggc gtaataacca gccaaaccag accagggtca gcaacaccag 84300

cagccccctgt gagatccagg aagagaacag cagttggccc gccagataac gacgggactg 84360
 cagcgtttct gcgacataaa cctccgccat gccgataatg ccgccttcgt tgaccggctg 84420
 tagcaaacgc gctacgcgga tcgcctcgcc gcgatactcg gtatgataga accacgccag 84480
 cgccggataa agccgggtac ggggcgtagc gggcgcatg gcaggcagat cgtcataacc 84540
 ggaaatgacc ttcccggaag ggtcgacgac tttgtaatag agtcgatcat tcatattaag 84600
 ctcgaagcta tccagcacca cccagggcac gttaacttcc agatggttat tgcgcaccac 84660
 cagccgttcc gataccgttc gcgccgagga gagcaacgta cgatcataag cctgagtggc 84720
 ggctgttagc gcattgacat aactgttaaa cgccgacagc ccccatagca gaatcagcgg 84780
 caaccccagg aacagtaaga gttgcaggta caacgattgc ggcttaaccc acttcatcgc 84840
 cgcgctccag cacataaccc aggcgcgcga gcgtcgtaat tcgtacatcg cttccctgaa 84900
 gttttttacg cagtcgatga atataaagtt cgatgctttc agggcttacc tcatcgttca 84960
 ggctgaacac ctgtttcaaaa agctgctgac gcgagacagg ccgcgttcgt cggtaacatca 85020
 atacggttaa gagcgccctgc tcacgcggcg tcagcgctaa cggctgtccc tgtaacagaa 85080
 aatacccttc atcatgaaag atcaattcac ccagttgctg aacttcatga accagcccag 85140
 cgctgcgtcg gagcaaggcc cgtaaacggg catccagctc ttccagttca aagggtttcg 85200
 gcagatagtc atccgcgccg acgttgagac cttttacgcg atccgccacc gcgcttcgcg 85260
 ccgtgagcag caaaacgggc aaggctctgac cgcgtttacg cagccgttgc accacctcca 85320
 gtccatccat tcccggcata ttgatatcca gcaccatcag cgcatacatt tcaactgtgca 85380
 gaagatggtc agccgccagg ccgtcaaata cgcagtcac ggcaaagccg ttttgacca 85440
 gcgctttctc cagccagtga gccagctcac ggttatcttc cgccaataag agacgcatat 85500
 cacatcctgt aaagtttctg ccgcattgaa aggggaattga aaggttattg ttttaacaat 85560
 cagcgaaccg aactgctaca tgtcggctca cataatcaca aaaatcttct tccgaacctg 85620
 aaaaatccgg acgtccggcg tgaggataaa aaatgaaaaa acaattactt cgtaccctta 85680
 ctgcaagcat tttattaatg agtacctctg ttctggcaca ggaggcgccg tcgcgaacgg 85740
 aatgtatcgc gccagccaaa cctggcgccg gttcgctgct caacctgtcg caggggaaat 85800
 ttggtcgcta cggcgtggat gatgtgcgct ggctggcaag cgtgggcact gattacggca 85860
 tgatcgccgt gcgtgcggat tccccgtgga agacgctgaa agatctgatg acggcgatgg 85920
 aaaaagatcc caacagcgtg gtcacggcg ctggcgctc tattggcagc caggactgga 85980
 tgaagtcggc gttgctggcg caaaaggcga acgtcgatcc gcacaagatg cgctacgttg 86040

cctttgaggg cggcgggcgag ccggtgacgg cattaatggg caaccatggt cagggttgtct 86100
ccggcgatct cagtgaatg gtgccttatt tgggcggcga caaaatccgc gtccttgccg 86160
tcttttcaga aaatcgtctg ctgggccagc ttgccaatgt ccctaccgct aaagaacagg 86220
gctacgacct agtgtggccg attattcgcg gcttctatgt cgggcccaaa gtcagcgatg 86280
ccgattacca gtggtgggtg gataccttca agaagctcca gcaaaccgac gagtttaaaa 86340
agcagcgcgga tctgcgcggc ctgtttgagt tcgacatgac cggccagcag ctcgatgact 86400
acgtgaaaaa acaggttact gattaccgtg aacaggcgaa agccttcgga ctgcgcaaat 86460
aatcgcgag gcaatgatga gcgatcgtat ctttgcggtt atctggctgt tgctctgtat 86520
cgccgggcta ttcacgcct ggagatcca aagcgaatac agctatgaac ccgtcggccc 86580
ccgccctttt ccgctgggga ttatcggcct gatggcgctc tgccgcgtgg cgctgttatt 86640
gcgccatccc gacacggtga gctggccgcg ccgccatggt ctgcaaaagc taattaccat 86700
gatcatcatc ctgttgatgt atgcctgggg attcgaatgg ctgggttttc ccatcgccac 86760
cgcgcttctc accatggtta tcgggatgct gttcggcgcc acgattccgg cggcgggtat 86820
ctccggcgcg gtattaggca ttctgctgtg gtatgccttt gaccggctgc ttgatgtcac 86880
cttacctctc ggcgctggc tgagttaacg gagcaacgat ggatacctgg atatgtcttt 86940
ctcagggtt tgcggtggca atgacgcgg aaaacctggt tatcgcggtt attggctgct 87000
tcgtgggcac gatcgctcgt ctgctgccgg gcctgggacc gatcaacggc gtggcaatct 87060
tactgccgct ggccctttgc ttgcatctgc ctgcggagtc ggcgctaatt ctgctggcga 87120
cgggtgtacat tggctgtgag tatggcggca ggatctctc catattgctc aacgtccccg 87180
gcgatgcggc ggcgatcatg acggcgctgg acggttacc aaaggcgag caagggaaag 87240
gcggcgtagc gctgtcgatt tccgcagtca gctcattttt cggttcatta atcgctatcg 87300
gcggcatcat tctgttcgcc cctttactgg cgcaatggtc gctggccttc ggtccggcgg 87360
aatatttcgc cttaatggtt tttgctatcg cctgtcttgg cagcatgatg gcgcaaaacc 87420
cgcttaaata atttctggca gctctgatcg gtcttggcct tgcgaccgct ggcgtagcag 87480
ccaacaccgg ggtttatcgc tttaaccttg acagcgttca tctttccgac ggcgtagcag 87540
ttatcgctgt ggtgatcggc ctgttctcgg tatcagaaat acttttaatg ctggaacata 87600
ccagcagcgg gcaacaatg gtccgcaaaa cgggtcgaat gttgttcaac ctgaaagaag 87660
gcgcgcagtg tatcggcacc accctgcgtt cttcggtaat cggctttttt gtcggcgat 87720
tgcccggcgc cggggcgacc attgccagcg ccattaccta tatgaccgag aaaaaactca 87780

gcggaacag cgatagcttc ggcaaagggg atattcgcg cgctcgcgcg ccggaggcgg 87840
caaacaacgc ctctgcctgc ggctccttca tcccgatgct gacgctgggc gttcccgggtt 87900
ccggcactac ggcaagtgat atggggggcg tgacgctgta taacatcacg ccaggcccgg 87960
cgatgttcac cgaacagccg gatatcgctt ggggactcat cgctcgctg ctgattgcca 88020
acgtgatgct gctgatcatg aatatcccgt tgatcggctt gttcacccgt atgctacca 88080
ttccgctgtg gttcctggta cccgccatcg ctgccgtatc ggcggtaggg gtatatgcgg 88140
tacacagccc caccttcgat ctggtgctga tggctcgctt tggcgtgtta ggggtacattt 88200
tacgtaaaat gcacttcccc atgtcgccgc tgatcctggg atgcgtactg ggggaaatgc 88260
tgagagcagaa cctgcgtcgc gcactctcca tcagtaacgg caatatggcg attttgtggc 88320
aaagcggcgt tgccaaagcc ctgctgatca tggcgatcat agtcattgtc gtaccgccag 88380
tgttacgtct gatccgtaaa cacagccgta aaccgcagggt tgacgccagt taattgactg 88440
ctgaaatacg ttgtacttgt ccggcctacg cgctcatgtg ccaggccggg caaccccgcc 88500
agcatcactc tttccataac tcgctcattt tacaccctt cttgccgttg tcaggctcgt 88560
ggcgccgtta acctcacctt tcgcattgtt aaatatattg tgtttttgat cacaataatt 88620
aaacaaaagc ggttatttca tacgcgttcc tggaaaatgt cgatatTTTT aatttatggc 88680
tacgaaatga gcacgccat gtctccctga ccatctaccg agaggaatga ttctgatgaa 88740
tgactgact gccgtaaaag cgaacacaga tgatttagcc caacgccata ctggtttcat 88800
ccttgccctt tcggcgcagt cgccgcgctt gctggcggtta acgtttacgg cggataccac 88860
aagacaattt ctccatcagg ttgcgcagtg gccggtgcag gcgctggaat acaaattctt 88920
cttacgtttc aaaatcggca agatcctcga cgatctgtgc ggcaatcagc tacaaccgct 88980
gttgatcaaa acgctcctca accgtgcaca aggcgcgctg ttgatcagcg ccgaagggat 89040
cgatgatgtc gcacaggcag aagagatggt caaactggcg acggcggtgg cgcattctat 89100
tggctcgctc aactacgatg cgatgagcgg ccagtattac gcgcgtttcg tgggtcaaaaa 89160
cgctcgacaac tccgacagtt atctgcgcca gcccaccgc gtaatggaac tgcacaatga 89220
cggtacctat gttgaggagg tgaccgacta cgtgctgatg atgaaaatcg acgaacaaaa 89280
tatggaaggc ggtaattcgc tgctgctgca ccttgatgac tgggaacatc tggagtcgtt 89340
ttttacccat ccgctggcgc gtcgcgtcat gcgctggcg gcgccgcaa gcaagaatgt 89400
tagccatgac gtctggcacc cgggtgttga tgctgaccaa caaggccgcc cggctatgcg 89460
ttatatcgac cagttcgtcc agccaaaaga ctttgaagaa ggctcttggc tcagcgagct 89520

ttcagacgcg	ctggaaacca	gtcaaaacat	cctctccgtg	ccggtaccgg	tcggcaaatt	89580
cctgctgatt	aacaatctgt	tctggctaca	tggacgcgat	cgttttacgc	cgcatcctga	89640
cttgcgtcgc	gagctgatgc	gccagcgcg	ttacttcgcc	tacgccgcca	gccattatca	89700
aactcaccaa	taagcgccac	ggcgaaggaa	ttacgcggat	gtatgatttt	gtgattatcg	89760
gcggcggcat	tatcggcgat	tcgaecgcca	tgcaacttat	tgatgtctac	ccggatgcgc	89820
gcatcgcggt	gctggaaaaa	gagtcgcgc	cagcctgcc	ccagaccggg	cataacagcg	89880
gcgtgatcca	tgccggggtg	tactacacgc	ccggcagcct	caaagcgcg	ttttgtctgg	89940
cgggcaatca	ggcgacaaa	accttttgcg	atcaaaaca	catccgctac	gacacctgcg	90000
gcaaaatggt	ggtcgccacc	tcggagctgg	aaatggcgcg	gatgcgcgcg	ctatgggagc	90060
ggacggcggc	caacggctta	gagcgcgagt	ggttaaacgc	ggcggagctg	cgtgaacgcg	90120
aaccaatat	cattggcctg	ggcgggattt	ttgtcccttc	cagcgggatt	gtcagctatc	90180
gcgatgtcgc	gacggccatg	gcgaaccgct	ttcaggccaa	aggcggcgag	atcatctacc	90240
atgccgaggt	cagcgcgcta	acagaacatg	ccgctggcgt	tatcattcgc	acttcgcaag	90300
gccgagaaat	cgaaaccgct	acgcttatcg	gctgtgcagg	gctgatggcg	gatcggctgg	90360
tcaaaatgct	gggcgtggag	cccggtttta	ttatctgccc	tttccgcggc	gagtactttc	90420
gtctggcccc	gcgacacaac	cggatcgtta	accatttgat	ctacccgatc	cccgatccgg	90480
caatgccgtt	tctcggcgtc	caccttaccc	gcatgatcga	cggcagcgtc	acggtcgggc	90540
cgaatgcggt	gctggcgctt	aaacgcgaag	gctaccgtaa	gcgcgacggt	tccttcaccg	90600
acaccctgga	gattttccgc	tcgcgcggca	ttcgcgcggt	actgcaaaac	catctgcttt	90660
ccggactggg	cgagatgaaa	aactcgctgt	gcaaaagcgg	ctatttgcg	cgagtacaaa	90720
agtattgccc	cagcctgacc	gtcaacgata	tccagccctg	gccggcaggc	gtgcggggcg	90780
aggcggtttc	gccggacggc	aaactgattg	atgattttct	gtttgtcacg	acgccgcggt	90840
ccattcacac	ctgtaacgca	ccctccccgg	cggcgacatc	agcgatacct	atcggcgcg	90900
atatcgtcag	taaagttcag	gcgctacgcg	caagccagag	caaccccgga	cgtacgctgc	90960
gtgcggcacg	cagcgtggac	gcattacacg	ccgcatttac	ccgttaaccc	ttcagacagg	91020
aagcaattat	gcaacttaac	gactctaccc	tgttccgcca	gcaggccttt	atcgatggcg	91080
actggcgcg	cgcgcgcggc	ggcgatgtca	tccccgtgag	caaccccgcc	aacgggaaac	91140
cgcttgga	tgtgccccaa	atggggggcg	aagagacgcg	cgacgccatc	aacgcgcgca	91200
atcgcgccct	gcccgcctgg	cgcgcgctca	ccgccaaaga	gcgagccaat	atcctgcgct	91260

gctggttcaa tctgatgatg gaacatcagg acgatttggc gcgtctgatg acgctggaac 91320
agggcaaacc gctggcgga gcaaaaggcg aaattagcta cgccgcctcg tttattgaat 91380
ggttcgccga agaggggaag cgtatctatg gcgacacgat tccaggatcat cagaccgata 91440
aacggctgct ggtgattaaa cagcccatcg gcgtcaccgc cgcgattacc ccgtggaact 91500
ttccctcggc aatgatcacc cgtaaagccg gccccgcgct ggccgcaggc tgcacaatgg 91560
tactcaaacc cgccagccag acgccgtttt ccgcgctggc gctggcgga ctggcccagc 91620
gcgcgggaat tctcgaggc gtatttaacg tcgttaccgg ttccgcaggc gatatcggcg 91680
gcgagctgac cagcaacccg ctggtagca aactgtcggt taccggctcg acggagattg 91740
gccgccagct aatggaacaa tgcgccaaag acattaaaaa agtatcgctg gagttgggcg 91800
gcaatgcgcc gtttatcgtc tttgacgatg ccgatctgga taaagccgct gagggcgcg 91860
tggtctcgaa gtttcgcaac gccgggcaga cctgtgtctg cgccaataga ttgtatgttc 91920
aggacggcgt ttacgatcgt tttgcggaaa aactcaacca ggcggtaaat aagctcgcg 91980
tcggcgacgg cctgcaagcc gacgtcgcta tcgggccgct gattgatgaa aaagccgtgg 92040
ctaaagtcca ggagcatatc gccgacgcgc tggaaaaagg cgcccgcgta attacggcg 92100
gtgaagcgca caaattaggc ggcaacttct ttcaaccgac cattctggcg gatgttctg 92160
ataacgcgaa agtcgcaaaa gaagagacat tcgggccgct cgcgccctctg ttccgcttca 92220
gcgacgaggc ggatgtcatc aggcaggcta acgataccga gttcggcctg gcagcctatt 92280
tttatgcacg cgatttaagc cgcgttttcc gcgtcggcga agcgtggaa tacggcatcg 92340
tcggtattaa taccggcatt atctccaacg aagtcgcgcc tttcggcggc attaaggcct 92400
ccggtattag ccgtgaaggc tccaaatacg gcatcgaaga ttatttagaa atcaaata 92460
tgtgcatcgg cttttaacag gagagtcgct aatgaatacc aataacactt taatgcagcg 92520
ctgtcataac gccgttctc gcggcgtggg ccagattcac ccgattttcg ccgagcgggc 92580
ggaaaattgt cgggtctggg atgtcgaagg ccgtgagtat ctcgatttcg cgggcggcat 92640
tgccgtcctg aacaccggtc atttacatcc gggcattgtt tcagcgtcg aagcgcagtt 92700
gaagaaattg tcgcatacct gttttcaggc gctggcctat gaaccgtacc tggcgctgtg 92760
cgaacgcatg aaccagaagg taccgggcga tttcgccaaa aaaacgttgc tggtcacgac 92820
cggttcagaa gcagttgaaa acgcggtgaa aatcgccgc gcggcgacaa aacgcagcg 92880
cgctatcgcg tttagcggcg cttaccacgg tcgtacccac tacacgctct ctctgaccgg 92940
gaaagtacac ccgtactctg cgggtatggg attgatgcca ggccatgtct accgcgcgct 93000

ttatccttgc ccgctacaca acatcagcga cgacgacgcg atcgccagca ttgaacgcat 93060
ctttaaaaaat gatgccgcgc cggaagatat cgccgccatt attattgagc cggtacaggg 93120
cgaaggcgga ttttacgccg cctctcccgc gtttatgcag cgactgcgcg cgctatgcga 93180
ccaacacggc attatgttga ttgccgacga agtgcaaagc ggcgcgggcc ggaccggtac 93240
gctgttcgcc atggaacaga tgggcgttgc ggcagatatt accacgtttg cgaaatcgat 93300
cgccggcggc tttccgctgg caggcggttac cgcccgggca gacgtgatgg acgctatcgc 93360
gccgggcggt ctgggcggca cctatgccg aaacccgatt gcctgcgtcg ccgcgctggc 93420
ggtactggac attttcgagc aggaataatct actgcaaaag gcgaatacgc ttggcaaaac 93480
gctgcgcgat ggctgatgg agatagcga aacgcaccgt gagattggcg acgtgcgcg 93540
actgggcgcc atgatcgcca ttgagttgtt cgaaaatggc gaccccgga aaccgaacgc 93600
gactctgacc gccgacattg tggccgcgc ccgcgagaaa gggttaattc tgctctcctg 93660
cggtccttac tacaacatct tgcgcatcct cgttccactc actattgagg cctcgcagat 93720
tcggcaaggc ctggagatta tcgccagtg ctttgatgag gcgaaacaag cgtaatgtcc 93780
aataagcagc gtcggatggc gacgtaactg tcttatccg cctacaaaaa ccgtttcgat 93840
tgtaggccga ataagccagg caccatccg taaacgagcg caataacaat aaagaggttt 93900
taggatgggg caattgtcag aatcacatgc attagggggc gggctgaaat cacgccacgt 93960
caccatgtta tcgatgcgc gcgtcatcgc cgccagcctg tttgtcgggt ccagcgtggc 94020
gattgcggag gcggccctg cggctactgct ggcctatctg ttcgcaggac ttttagtcgt 94080
catgattatg cgaatgctgg ctgaaatggc cgtcgccaca ccggataccg gttctttttc 94140
cacctatgcg gataaagcga tcggccctg ggccgggtat accatcggct ggttatactg 94200
gtggtttttg gtgctggtta ttccgctgga ggccaatatt gcgcgatta ttctgaattc 94260
atggataccg ggtattccg tgtggctatt ttcattagt attacgcttg ccttaaccg 94320
aagcaattta ttgagcgtca aaaattacg tgaattcgaa ttctggctgg cgctatctaa 94380
agtaattgcc attctggcgt ttatcgcgct gggcgcggcg gcgattagcg gtttttatcc 94440
glatgcgcgag gtaagcggta tttcccggt ctgggatcac ggcggtttta tgcctaaccg 94500
cttcgggtgc gtgttaagcg ccatgttgat caccatgttc tcttttatgg gcgcggaaat 94560
cgtcactatt gctgccgcg aatccgatac gccggataaa catatcgtag gcgccaccaa 94620
ttctgttata tggcgaattt ccatctttta cctgtgttcc atttttgtgg tagtggcgct 94680
gatcccggtg aatatgccg gtctgaaaag cgtaggttcg tacogttcgg tactggagct 94740

gcttcatatt	ccgcacgcaa	aattcattat	ggactgcggtg	atattattgt	cggtgaccag	94800
ttgtctgaac	tccgcattat	ataccgcctc	ccggatgctc	tattccctta	gccgccgcgg	94860
cgatgogcct	gcgataatgg	gaaaaactaa	ccgtagcaaa	acgccctggg	tggcgggttct	94920
cctctctacc	ggcgcggcct	ttttaaccgt	tatcgtaaat	tattacgccc	cggcataaagt	94980
gtttaaat	cttatcgaca	gttccggcgc	catcgcgctg	ctggctctatc	tggtgattgc	95040
gatttcgcaa	ttgoggatgc	gtaaaattct	gctggcgagc	ggcgagagaa	ttaagttgaa	95100
aatgtggcct	tatcgtggc	tcacctggct	ggttatcggc	tttatctgct	ttgttctggt	95160
ggtgatgcta	tttcgacggg	cacagcaact	agaagtcatt	tcaacggggc	tggttagggct	95220
gggcataata	ggtactgtcc	ctattatgtc	tcgctggaaa	aaactgataa	ggtggcaaaa	95280
agccccctg	caaacctac	gttagttatt	ccggcgctca	gccgggaagc	ttctcaggag	95340
taaaagatga	ccgccctttc	ccaaccgacg	gccatagatg	gctatcgctg	gcttaaaaat	95400
gacattat	tcggcactta	tcagccggat	gagaaactgc	ggatgagttt	attaaccgcc	95460
cgctatgcgc	tcggcgtagg	gccgctgcgc	gaggcgctgt	cacaactggg	ggcggaacgg	95520
ctggtcaccg	tggtgaatca	aaaaggctat	cgctggcat	ccatgtcaga	ggcggaactc	95580
ctcgatat	ttgacgcgcg	cgccaatatg	gaagcgatgc	tggtgcgcct	ggcgattgaa	95640
cgcgcgatg	atgcgtggga	ggcgagatc	ctggcgcgag	cgcatatgct	cagtaaaactg	95700
gaagccagcg	atgccagtga	acatatgctc	gatgaatggg	atcagcgcca	ccaggcgttt	95760
cattccgcca	ttgtcgccgg	gtgcggctcc	cactatctgc	tacagatgcg	cgaacgctta	95820
tttgacctgg	cgccccgcta	ccgctttatt	tggttacgtg	aaaccgttct	gtccgtcgag	95880
atgctggaag	ataaacatat	ccagcatcac	acgctaaccg	aagcgatact	ggcgcgcgag	95940
gcggcacgcg	ccagcgaatt	aatgcgtcag	catttgctga	cgccgattcc	cattattcgc	96000
caggcgatgg	caggaaaaat	gtagccaggc	acggcctgat	agccattatt	cttcagggaat	96060
acgcaacact	tgtcccggat	atattttttc	cgggcttttc	agcatcggtt	tatttgccctc	96120
gaagatttta	ttatacagat	tggcgttacc	atacacttgc	tttgaaatag	cgctcagggt	96180
gtcgctgat	tttacgggat	aaaactgact	ttcagccgct	ggcgctcggtg	ttttaacctg	96240
atcgtaacg	ctgctaattc	cggcgatatt	ccccacggca	accagaattt	tttcttttgc	96300
ctcctgactc	agcccatcac	ccgtcactgt	cgcttttcca	tcagcaattt	gcacattcac	96360
tttgtcagcg	tcgggtattc	ccgtttttatt	taaatgttcc	tagacttttt	tcgcctgatc	96420
gtccttatca	tgattagcgg	ttaccgcgctc	ccagagtttt	tcacctgcat	cttttataaa	96480

attgaaaagt cccatattca cctcgcttgt caaaaataca cacaaagaaa agtgtagcag 96540
agggaatgag gttatcctga taagcggcgc ttatgcgccg ccggtggccg gtaattaatg 96600
acgcatctga acccaaaatg catggataag ccccggaata tatccgagta atgtcagcag 96660
gatattaagg ataaatgccc aaccgaaccc ttttcctaaa agtacgccga gcggaggcaa 96720
aataatcgta aatacaattc tccagaaacc catatacact ccatacaagc aaaattagtc 96780
attgttttaa aagagatttt atctctaagc atagtcagtt tacctgagcc tgccagtcgc 96840
gcgcgcgcgt tttaccctcc tttacgcttt ttacgctggc atcaggttga cgtttatttt 96900
agaattaact aaatttagaa aacacttaaa taactatgac agagcttgaa aaacttcagg 96960
ccagcgcaga acaggcagcg gccctgctca aagcgatgag ccacccaaaa agattactga 97020
ttttatgtat gctttgcggt tcaccaaaaa ccagcgcagg cgaactggcg cgcattaccg 97080
ggctaagccc ctccgcgacg tcgcagcatc tggcgcggat gcgggaagaa gggctgattg 97140
atagtcaacg cgatgccag cgcattcact atttcattaa aaatgaggcg gttaatacgc 97200
ttatgccac gttaaagaat ctctattgtc cataaggagg cacgatgtcc attgggatag 97260
tttcccccg tgaggcgcaa gcgctgatag cgcaaggcgc gaaactgatt gatgtgcgcg 97320
acgccgatga atatctgcgc gagcatattc cacatgcgca actggcgccg ctttcccggc 97380
ttgaacaggg cgatttgccc gccaacctgc gagcggaaca gattattttt cactgtcagt 97440
caggtaaacg aaccagcagc aatgcagcaa aactacaggc cattgccgcc cctgctcaag 97500
tcagtttact ggaaggcggg atcgacggat ggaaagcggc aggattgccc gtcacagaag 97560
acaaatcgca accgttgccg ctgatgcgtc aggtgcaaat cgccgccggc gggttgacgt 97620
tgcttggggg gattctgggc tatacgggtc acggcggtt tttcctcatt agcggttttg 97680
tcggggccgg gttaatgctg gcaggcataa ccggcttctg cggaatggcg cgactactgg 97740
aaaaaatgcc ctggaatacc cgtactcatt aagcgggtact ttcaccgcgc gtcggtaagt 97800
gtgtagtaga ctgaaggcgg gtttatacca ttgttcaacg ggaggacgtg atgttcacac 97860
caggcgatat cgtacagccc cgaatggggg gggccgaaac tgaaagtgat tgaagtcaac 97920
gaggatcata ttgtcgcggg acaggtcggg aatgagccgg gcgaaaaatt gatcctcaaa 97980
gcggcagatg tcacccccta ttgcgaaaag ggcgattttg gcgtgtgctg atttatcaaa 98040
atgagcatgg cgcaacgttc cctgaatccc ggttaataga gacaggaaac gcagcgccat 98100
ctgttaaagg ttatccgtga ttagattaag aaatcatcca gagatttccc cgccgccagc 98160
gcctgggcaa tcggtttagg cgtacgacct tgtccggtcc aggttttttc ttccgcatg 98220

aaatcagtaa aacgatattt tgccggacgc ggttggcgct ttttagcaga acgcggcatt 98280
 gctgaatoca tggcaaataa ctcttcggg ttaataccgt ctgctttcat cagctccaga 98340
 aaggcattaa ttttctcctg ctcttcggca agctggcggt gctgcaattc ttcttcttcg 98400
 cgtctttctt tagtgacaac cctgaatttt tcgagcattt cttcaagaac atcaatggag 98460
 aattcgcgag ccatagcgcg cagcgtgcgg atattattta agttctgtaa catcaaattc 98520
 atatcaataa aaacctttta acgcagaaaa caaaaactat tacaggcggt attgtatgcg 98580
 attattgatt atatttccag atcctaaagt tcatacagat atacacagca taactcgatt 98640
 aattatatta atctgttaac cagaagatta tattcattac cccctgtgtg tttcaggtta 98700
 ttctgcctac ggtatatctg taggtttccc gttcggctgt ttatagcgta ttgcgtatct 98760
 cagtaaccgc ggtgaccctc acggtggctg acctataca gaagtgaata tttcagcaca 98820
 ataatagatt aatcattcaa aaattatcat cagagcttta tgctaaaaat caccctgtaa 98880
 tagctataat tatgctgaga aaagcagagc gcgtgccgtt agccgagaat acatcgcatc 98940
 tgacaacatt tggaatgtgg ctgaaaatcg ccagaaaaac aatgcattat aatgtattga 99000
 tttaaaagta attaatgact aacaacaacg aaaatctcgc cgcgagcaaa aaaacacaca 99060
 atcacagagt attttatcga caaaaagcct ataaataaaa atattacgct agttgatagt 99120
 tattatatag ggatatactc tatgaaaaga caaaagcgct ttataatttc actaccaact 99180
 atcacctcat totgatcgat acgctacaag gagcattaac atgttctctc cacagtcacg 99240
 cttgcgtcat gccgtagcag acacgtttgc gatggttggt cactgttctg ttgtgaacat 99300
 gttgatcgag atattcctct ccggaatgag ctttgagcag tcgctttctt ccaggctggg 99360
 ggcgatacct gtcaacattt tgattgcatg gccatacggc gtttaccgcg atctgattat 99420
 gcgcgtcgcg cgtaaggcaa gcccgggcgg atgggccaaa aacctggcgg atgtattggc 99480
 ttatgtcacc tttcagtcac ccgtttatat tatcatcttg ctgaccgtcg gcgccggctg 99540
 gcatcagata gtggccgccc tgagttcaaa cattgttggt tcaatgttaa tgggcgcggg 99600
 ttatggctac ttctgaatt attgtcgtcg cctgtttaaa gtgagcagct atcatcaggc 99660
 taaggcataa gttaacgtcg cgactggctt tgccagtcgc gcttttagtc gcttttttcg 99720
 tcgccaaaaa gccattcag ataacgttct aacgctattc gggagctaaa gccgtgggga 99780
 ataccgtaat gttcgtgggt ctgcgccct aaatagagcg gaaaattttg gtagtgatcg 99840
 caggttttaa tatccgaagc cgggtcagcc agtgatgagc tacgggtctt taatctgggg 99900
 tgaatgatca gcgcggtacg ccccatagc gcctcgcggg taacataaac ataattctcg 99960

ccgcgctcgat aaccatacgt cttattcgtc accacatcga cggtaaacc tgccttttcc 100020
agtaccccgcg ccacctcgtc aggtcgtaaa tacatgtttt atcctcattc tcttttactg 100080
cgggcttacc ttacccgata gcgcgttata aacgctttca gaaaagtcca gaaacgcatg 100140
atatcgccgt aacaagcctc agcaggtaaa aatatgaact aactgaaag ctacatcgaa 100200
atcaatggag gatcatatgc ttaacaaacc gaaccgaaac gacgtcgatg atggtgttca 100260
ggatattcag aatgatgtca atcgattagc cgacagtctg gaagatgtcc ttaaactcctg 100320
gggaagcgat gcgaaagacg aagccgagggc tgcgcgacgt aaagcacagg cgttgctgaa 100380
agagaccggg gcgcggatgc agggtcgtac tcgcgtaaaa caagccgcct gtgatgcgat 100440
ggggtgcgcg gatacgtttg tgcgtgaaaa accctgggtg agcgtaggaa ccgcgcgagc 100500
ggtggggatt tttatcgggg cgctgcttag cctgcgtcgc taacgacgtg cgctgccgga 100560
tggcgacata ctttatgggg cctgcatcat tgccgcaggc ccaggtcgcg ccattcggcg 100620
aaacggttac tgtatcgctt gtcgaagctg acatgctacc tgtttcgcca tgccagcgga 100680
agtaatatgg gtaaacgaca gtaaaatgcc cccctttcct gacgaaacca ctgcaccaacg 100740
acttagcgcc tgtaccgcca gtccggcctg attcgctttt gctaccagcg ctttatcattc 100800
acottcaacc tcaataacca attgaatacc gcctttctgt aatgtcacga caaatccctg 100860
ttctgccagc gcctcttcaa tccataaccg tcgctgagca taatgttgac gcatcttttt 100920
cagatgccgc cagaaatggc catcacggat aaaatcagcc agcgtgtgct gccataacaa 100980
cggtagccta cagggcattc gcgacgcctg ctggcggaat tgctcaatct gctttatcgg 101040
caccaccagc caggcggtac gtaatgcggg aaagagcgac ttactgaacg ttccggcgta 101100
aatcactcgc tgcggggcat ccagaactct gagcggcgga agcggtttac cgtgataacg 101160
aaattcgtg tcgtagtcat cttcaataat ccaggcctgc acattcgccg cccatgccag 101220
aagttgccgt cggcgagtta acgacagcgc ccccccaac ggactttgat gggcgggcgt 101280
caccaatgca aagcgtccct gcgggcaatc ccgcatcccc gctgcgacat tcagcccatc 101340
ggcatcgacc ggaatcgggc ccagcgtaat cccctcctgc gttatcacgg ggcaattaa 101400
cggaaagccg ggatcttcca cccacatgct gtctcccggc acagacaatg tacgcaggat 101460
tagccgcata gaatccgcat atccggaggt aataaatacc tgttccggca gacattcaat 101520
gctacgcgaa acccgaggt aatcgactat cgcctagcgc aaaatcgctc cgccgcagac 101580
gtcgcctaata gccagatcga agcgtgtctg cgtgcgcaac cgacgcccc ttactcgcgc 101640
ccacttctcg cgtggaaaga gatccagcgc cggtaacccc atctgaaagg gtttcggttc 101700

cggacttttct cccggcaaaaa cagcgggtat cggcggcgcc gtctcaaacc gtagagcggtt 101760
gctcacaacac gtgcctgcct ggccacgtcg ctccagccag ccctgcgcta ccagctcgcc 101820
ataggcattt tccaccgtgg cgcgagaaac gccagttcc tgcgcccacg tccgactgga 101880
aggcaaacgc gttccggggc cagatttctc ttgctcaatg gccgttttta actgacgagc 101940
gatgtactga tagcgcggca tatggtctgc tttttctgta aaaatatggc tctcttttac 102000
agaccattat agtgctacag tgctcgatcat caacacgagg agaaacataa tgacgacggtt 102060
acgccaaacc tattatgaac tgagcccga ggtttacagc gctctggtgc aggcgaaaaa 102120
cgcgctggaa aagagcacga ttgacccac tctgatggag ctgatttacc tgcgtgtttc 102180
gcaaataaat ggttgtgcat ttttctgga gatgcacagt aaagcgtgc gtaaggctgg 102240
cgtgaatcaa gctaaattag atgcgctggc aggatggcgg gtaagccacc atttcaacga 102300
gcaagagtgc gcggcgtag cctgggcgga atcggtgacg cacattgctg aaaccacgc 102360
cgaagataat gtttacctgc cgctgctcga tcatctcagc gcgctgaaa tcagcgatct 102420
gaccttcgct attggtttaa tgaactgctt taacogtctg gcgatcggta tgcgaatgtg 102480
acgcattgtt gccgcatagc gctgatgtca gccaaactctg ttatgcgtga acctgcaggc 102540
cggatcgggc gttcacgcc ccatccggca aaaattagcc atgccgccc taccocgctg 102600
cgttcatcag cggcgtaaa atcaatcgaa aattcccata tcttgatgg ttgaatctta 102660
attcaactac atctagtatt tcgtgtatca acacacgaca atccgacgcg tttcatcgcg 102720
ccgttttctc attttaaatg gaaatacgaa tcatgagcat tactatttac actcgcaata 102780
actgtgttca gtgccacgcc acaaagcggg cgatggaaag ccgtggattt gaatttgaga 102840
tggtgaacgt cgatctggtg ccgatgcag cggatacgt ccgggcgcaa gggtttcgtc 102900
aattaccggt ggtgatggcg ggcgatttga gctggtctgg cttccgtccg gacatgatta 102960
accgtctgcc cccgacgcc cacgcggcaa acgcatgagc gcgctcgtct acttctccag 103020
cagctctgaa aatacgcacc gttttatgca gcgtctgggg ctgcccgcca cgcgtattcc 103080
gctcaatgaa cgggagcgaa ttcaggtaga cgaaccgtac attctggttg tgccgtcata 103140
cggcggcgcc gggatggccg gtgcggtgcc gcgacagggt atccgctttt taaatgatga 103200
acacaaccgg gcgcgcatc gcggcgatcat cgcctccggt aaccgcaatt tcggcgatgc 103260
ctggggatgc gctggcgatg tgatagcaca aaaatgcggc gtcccctggc tgtaccgctt 103320
tgagctcatg ggcacacaac gcgacatcga taacgtccga aaaggagtaa atgaattttg 103380
gcaacaatca ccccgagcg cgtaatgcag gaaaccatgg attaccacgc cctgaacgcg 103440

atgctgaatc ttacgataa agcaggccat attcagttcg acaaggacca gcaggcgatc 103500
gacgccttct ttgccgcca cgtccgccg cattccgtga agtttgccag ccagcatgaa 103560
cgtctggaga cgctggttcg ggaagggtat tacgatgacg ccgtcctcgc gcgttacgac 103620
cgcgcttcg tcttcgcct gttecgagcac gccacgcca gcggctttcg cttccagacg 103680
tttcttggcg cctggaagtt ctataccagt tacacgctga aaaccttcga cggcaaacgt 103740
tatctggaac actttgaaga tcgggtgaca atggtggcgt tgacgctggc gcagggtgac 103800
gaaacgctgg ccaccaact gaccgatgaa atgctttctg gtcgctttca gcccgctacc 103860
ccgacttttt taaattgcgg taaacagcag cgtggggaac tggctcctg cttcctgctc 103920
cgtatcgaag acaatatgga atcgatcggg cgagcggtga attcggcgct gcaactctcc 103980
aaacgcggcg gcggcgctgc atttttactc tccaatctgc gcgaggcggg cgcgccgatc 104040
aaacgcattg agaatcagtc ttccggcgtg atcccgggtga tgaaaatgct ggaagacgcg 104100
ttttcgtatg ccaaccagct tggcgcgcg caaggggccg gcgcggttta tctccatgcg 104160
caccatccgg atattctgcg ttttctggat accaaacggg aaaatgccga cgaaaaaatc 104220
cggatcaaaa cgctctctct cggcgtggtg atcccggaca tcaccttcg gctggcgaaa 104280
gaaaacgcgc aaatggcgct cttttcgccc tatgacatac aacgacgcta cggcaaaccg 104340
tttggcgata tcgccattag cgaacggtac gatgaattaa ttgccgatcc gcacgtgcgc 104400
aaaacctata ttaacgccg tgactttttt caaacactgg cggaattca gttcgaatcc 104460
gggtatctct acatcatggt tgaagatacg gtaaaccgcg cgaatcctat tgctggtcgc 104520
attaatatga gcaacctgtg ctcggaatt ttacaggtca atagcgctc tcgttacgac 104580
gataaccttg actataccca catcgggcat gacatctcct gcaatctcgg ctcgctgaat 104640
atcgctcacg tcatggattc accggacatt ggccgtaccg tagaaaccgc tattcgcggc 104700
ctgacggcgg tgtcggacat gagccatata cgcagcgtgc cctcaatagc cgccgtaat 104760
gccgcctctc atgccatcgg tctgggccag atgaatctgc atggctatct ggcgaggga 104820
ggtattgcct acggttcgcc ggaggcgttg gatttcacca atttctatct ttacaccatt 104880
acctggcatg ccgtgcatac ttcaatgcgg ctggcccgcg aacgcggcaa aaccttcgcc 104940
ggatttgccg agtcgcgcta tgccagcggc gactatttta cgcagtatct acaggacgac 105000
tggcaaccga aaacggcgaa agtcaggcgc ctatttgccc gcagcggcat tacgctgccc 105060
acacgcgaaa tgtggctaaa gctgcgcgac gatgtgatgc gctatggcat ctataaccaa 105120
aatttgagg cggtgccgcc gaccggttcg atttcttaca ttaatcatgc gacctccagc 105180

attcatccga ttgtggccaa aattgagatt cgcaaagagg gcaaaaccgg gcgtgtgtat 105240
taccgccgcg cgtttatgac taatgaaaac ctggacatgt atcaggatgc ttacgatatc 105300
ggtcgggaaa aaattattga tacctatgcc gaggccacgc gccacgtcga tcaaggactg 105360
tcgctcacc cgtttttccc cgataccgcc acgaccgcgc atatcaacaa agcgcagatc 105420
tatgcctggc gaaaagggtat taagtcactg tattacatcc gacttcgcca gttggcgtg 105480
gaaagtactg aaattgaagg ctgcgtatcc tgcgcgtat aaggaaagcc atatgaaatt 105540
atctcgtatt agcgcacatca actggaacaa gatccaggac gacaaagatc tggaggtgtg 105600
gaaccggctg accagtaact tctggctgcc ggaaaaagt cgttatcga atgatattcc 105660
ggcctggcag acgctgagcg ccgccgaaca gcagctcacc attcgcgtgt ttacgggtct 105720
tacgctgctc gacactatcc agaacatcgc aggcgcgcgc tcgttaatgg cagatgccat 105780
cacgccgat gaagaggccg tactgtcgaa catcagcttt atggaagcgg tacacgcccg 105840
ctcttacagt tctattttct ccacgtgtg ccagacgaaa gaggttgatg ccgcctacgc 105900
ctggagcgaa gaaaaccac cgcttcagcg taaggcgcag attatttttag ctcattacgt 105960
cagcgatgaa ccgctaaaga aaaagattgc cagcgtcttt ttagagtctt ttctgttcta 106020
ttccggcttc tggttgccga tgtatttctc cagccgcggt aagctcacga aactgccga 106080
cctgattcgt ttaatcatc gcgatgaagc gggtcacggt tattatattg gctataagca 106140
tcagatagcg ctacaaaaac tatcggcaat cgagcgtgaa gagttaaagc ttttcgcgct 106200
ggatttattg atggaactgt acgacaacga aatctgctac acagaagcgt tatatgcgga 106260
aaccggctgg gttaacgacg tcaaagcctt cttgtgctac aacgccaata aagccttaat 106320
gaacctgggt tatgaggcgt tatttcogcc ggagatggca gacgtgaatc ccgcaatcct 106380
tgccgcgctc tcgccgaatg ccgacgaaaa ccatgatttc tttccggct caggttcac 106440
ttatgtgatg gggaaaacgg tcgaaaccga agacgaagac tggaattttt aaccttgcg 106500
gcatgggaaa taacgttaca ttttccatgc ctttatttca agcaataccg ggttaaactc 106560
cgaaaatatt acaacatgtc ctacactcaa tacgagtac attattcacc tggattcctc 106620
caattcaggt ggatttttgc tggttgtctc aaaaaatata tctccctccc cattcgcgtt 106680
cagcccttat atcatgggaa atcacagccg atagcacctc gcaatattca tgccagaagc 106740
aaattcaggg ttgtctcaga ttctgagtat gttagggtag aaaaaggtaa ctatttctat 106800
caggtaacat atcgacataa gtaaataaca ggaatcattc tattgcatgg caattaaatt 106860
agaagtgaag aatctgtata aaatatgttg agagcatccg cagcgtgcct tcaaatatat 106920

tgaaaaggga ctatcgaaaag agcaaatact ggaaaaaacg gggctatcgc ttggcgtaa 106980
agacgccagt ctggccattg aagaaggcga gatatttgtc atcatgggat tatccggctc 107040
gggtaaatcc acaatggtac gccttctcaa tcgcctgatt gaaccacccc gcgggcagg 107100
actgattgac ggtgttgata ttgccaaaat atcagacgct gagcttcgcg aggtgcgag 107160
gaaaaagatt gcgatggtct tccagtcatt tgcgctcatg ccgcatatga ccgtgctgga 107220
taatacggca ttcggtatgg aattagcggg catcgcgcg caagagcgtc gcgaaaagcg 107280
ctggacgcct tgcgtcagg 107340
tccggtggga tgcgtcagcg tgttgggctt gccgcgcgc tggcaatcaa ccctgatatc 107400
ttattaatgg atgaagcgtt ttccgcctc gatocattaa ttcgtaccga aatgcaggat 107460
gagctggtga aattacaggc gaaacatcag cgcaccattg tctttatttc ccacgatctt 107520
gatgaggcta tgcgtattgg cgacaggatt gccattatgc aaaatggcga ggtcgtag 107580
gttggtacgc cggatgagat cctgaataat ccggcaaattg attatgtccg cagcttcttc 107640
cgtggcggtg atattagtca ggtctttagc gccaaagata ttgcccgtcg cagtcgggtc 107700
ggcttaattc gtaaaacgcc aggttttggc ccccggtcgc cactgaaatt attacaggat 107760
gaagaccgtg aatatggtta cgtcattgag cgtggcaata aattcgtggg cgtcgtgtcc 107820
atcgactcat taaaagcggc attaagccag gcgcaaggga ttgaagcggc gcttatcgac 107880
gaccctttag tcgttgatgc gcaaaccaca ctcagcgagt tgctctctca cgtcgccag 107940
gcgcctgcg cggtgccggt tgcgatgaa gaacaccagt atgttggcat tatttcaaaa 108000
cgtatgttgc tacaggcttt agatcgcgag ggggtaaca atggctgatc aaacgaatcc 108060
gtgggatacc gcacagggtg ccgatacgac gacgcaaacg gctgatgcct ggggaacacc 108120
ggcaggcgta gccacggagc gcggcagtag cgactggtt aacagcgcg ccgcgccagc 108180
ccctgaacac ttttctcttc tggaccggt ccataagacg cttatccgc tggatagctg 108240
ggtcacagag ggaatcgact gggtcgtcac ccatttccgt ccccttttc aggggattcg 108300
tgtgccggtg gattacatcc ttaacggctt tcagcaactg ctgctgggaa tgcccgcccc 108360
tgtggcgatt attctctttg cgtgattgc ctggcagggt tccggtgtgg gcatggggat 108420
cgcggcgctg atatcgctga tcgccatcg cgcgatcggc gcctggtcgc aggcgatgat 108480
taccctggcg ctggtgctga ccgcctgtt gttctgcgtc gtgatcgat taccgatggg 108540
aatctggctg gcgcgcagcc cgcgcgcggc caaaatagtt cgtccgctgc tggatgcgat 108600
gcagaccacg ccgcggttg tctatctggt gccgattgtc atgttattcg gcatcggtaa 108660

cgtgccgggc gtggtggtga cgattatatt tgctctaccg ccgattatac gcctgacgat 108720
cctgggcatt aaccagggtgc ctgccgactt aattgaagcg tcgcgctcgt tcggcgccag 108780
cccgcgcaa atgttggtca aagtgcact accgctggcg atgcccacca ttatggcagg 108840
cgtaaatacag acgctgatgc tggctctctc aatggctcgc atgcctcga tgattgcggt 108900
cggtagggctt ggccagatgg tactacgcgg cattggctcgt cttgatatgg ggctggcaac 108960
cgtcggcggc gtcggcattg tgattctcgc catcattctg gaccgtctga cgcaggccgt 109020
cgggcgcgac tcgcgtagcc gcggtaacgc tcgctggtat accaccggc ctggtgggct 109080
aatcacccgc cctttcggtta agtaactctc ctgacgcccg gtgacattgc gcttaccggg 109140
cttacaactc cctaccataa ttaaagggaac aacgatgcga catactgtga tatttgcctc 109200
agcgtttgcc acccttggtca ccgccagcgc tttcgctgcc gacctgcctg gcaaaggcat 109260
taccgtccaa cctatccaaa gcacgatttc tgaagagtc ttccagacgt tactggtcag 109320
ccgggcgctg gaaaagttgg gttataccgt aaataagccg agtgaagtcg attacaacgt 109380
aggctatacc tccatcgctt ctggcgatgc gacgtttacc gccgtgaact ggcagccgct 109440
gcatgatgat atgtatgccg cagcaggcgg agacaaaaag ttttaccgcg agggcgtctt 109500
cgtctccggc gctgcgcagg gctatctgat cgataaaaaa accgccgagc agtacaacat 109560
cactaatatc gctcaactaa aagatccgaa aatcgccaaa atcttcgata ccaatggcga 109620
cggaaaagcg gacatgatgg gctgctcgcc gggctggggc tgcaagaccg taatcaatca 109680
ccagaataaa gcgtttgatc tgcaaaaaac cgttgaggtc agccacggta actatgcggc 109740
gatgatggct gatacatta cccgttttaa agaaggcaag ccggtgctgt attacacctg 109800
gaccccgtag tgggtgagcg acgtaatgaa gccgggtaaa gatgtcgtct ggctacaggt 109860
gccgttctcc tccctgccgg gcgaacagaa aaatattgat actaaactgc cgaacggcgc 109920
gaactatggg ttcccgggtca atactatgca tattgtcgcc aataaggcat gggcggagaa 109980
aaatccggcg gcggcgaaac tgctcgccat catgaagctg ccgctggcgg atatcaacgc 110040
gcagaacgcc atgatgcatg ccggtaaatc gtctgaagcc gatgttcagg gccacgtaga 110100
cggctggatc aacgcccacc agcagcagtt tgacggctgg gtgaaagaag cgctggccgc 110160
gcagaaataa tatcgttttt tatgccgat aaggcgcagt tcatgcgccg ctatccggcc 110220
aacgcaatct ctctcaaag cgcacgattc atcacgtcac tgttcccctt tattcatcaa 110280
catcogctat gattgttttc ccaggaaata attatctaaa tcacgattac cataatgacg 110340
aaaccactc atgggcttag cccggcgctg atcgttttta tgtctgtggc cacgggtctg 110400

gcggtcgcca gcaactacta tgcccagccg ctgcttgata ccatcgcgca tcacttttcg 110460
ctttccgcca gctccgcagg gtttatcggt accgcccgcg agttgggcta tgccgctggc 110520
ctgttggttc tgggtccgct cggcgacatg tttgaacgcc gaacgctgat tgtctccatg 110580
acgttgctgg cggtggcg aatgctgac actgccagca gtcagtcgct tagcatgatg 110640
atactcgga cggccttaac cggactgttc tccgtggtgg cgcagattct ggttccgctg 110700
gccgccacgc ttgcgacgcc cggcaccgc ggtaaagtgg tcggcaccat tatgagcggc 110760
ctgttgctgg ggatcctgct ggcgcgaacg gtcgccggac tgctggcaaa cctcggcggt 110820
tgggcgaccg tattttgggt agcgtcggcg ctgatggcg tgatggcgt cgcggtgtgg 110880
cgcggtactgc caaagctcaa atccgacacc catcttaact acccgcaact gttgggttct 110940
gtattcagcc tgtttattca cgataagctg ctgcgtaccc gcgcgctgct gggctgtctg 111000
acctttgcta atttcagcat cctctggacg tcaatggcct tttgtctgc cgcgccgccc 111060
tttagctatt ccgaggggat gattggcctg tttggcctgg cgggggcgc cggcgcttta 111120
ggcgcgctc cggtggcg atttgccgat aaaggtaa atctcacctcac caccacgttc 111180
ggcttactgc tgctgttact ctctggctg gctatctggc ttgggcgcac ctcggtactg 111240
gcgctgatta ttggtattct ggtactggac ctacacgttc aggggggtaca tatcaccaat 111300
cagacggtca tctatcggtt gcatccgat gcgcgtaacc ggctcaccgc cggctatatg 111360
accagctact ttatcggtgg cgcgcgggg tcgctgattt ccgcctccgc ctggcaacat 111420
gccggctggg ccggcgttt tctggcggt gtcacggtag ccttacttaa tttactggtc 111480
tggtggcgag gttttcaccg acaggaagcc gtaaattaag cggatagtga gcgtttacct 111540
ttgtttaagc tccttagggt gttaaggagc tcccagctct gttaaggcta tgctattcat 111600
ttatcatggt tatttttata ccggtgaaga ataataat tctatggaaa gccctgcac 111660
cccatctgct ccaggccaa tagcgcccg tcaaggattc gaaggctcgt caccgatagc 111720
tattcgtgat attccggtgg cttttgcac gggttgtaag gccgtttacc cggctttcgc 111780
ccctcccgt tatcgttctc tcctgatttt ttcacgag cactcacgct tttctcgtca 111840
ttcctggatt tgccgcaggc ggcgctttac cgggcccaat gttcccgctg acgtctcagt 111900
ctgcgtatca ttggttgctt tatagcctga aagaatgatt ttgtattaat aatacattta 111960
ctttatttgt cactgtcgtt actatatcgg ctgaaattaa tgaggtcatg cccaaatgga 112020
tagttcgtt acgcccattg aacaaatgct aaaatttcgc gccagccgct acgaagactt 112080
tccttaccag gaaattcttt tgactcgtct ttgtatgcac atgcaaggca agctcctgga 112140

aaaccgcaat aaaatgctga aggctcaagg gattaacgag acgttgttta tggcgttgat 112200
tacgctggag tctcaggaaa accacagtat tcagccgtct gaattaagct gcgcgctggg 112260
ttcatctcgc accaatgcga cacgcattgc agatgagctg gaaaaacgcg gctggattga 112320
gcgtcgtgag agcgataacg accgccgttg cctgcatctg caattaacgg agaaaggcca 112380
ggcatttttg caagaagtgc ttccgcctca gcatcattgt ctgcatcaac tctggtcac 112440
acttagcaca gccgaaaaag atcaacttga gcacatcact cgtaaactcc tgacgcgtct 112500
tgatcaaag gagcaggaag gcactgttct tgaggcgctg cgctaaagcg ccgacccgct 112560
caaaaatcca gattaataac aggaaagcgg acaggccggc acgcgttact gctggccttt 112620
ctgacaacag gtcggctcag ccgatgtgaa taataagatc gtggagaaca acatgagcgc 112680
aaatgcggag atccaacccc cgcagcaacc ggctaagaag aaaggcaaac gcaaaacagc 112740
gctgctaact cttaccttgc tctttgttat tattgccgtg gcatatggaa tttattgggt 112800
tttagtattg cgtcatattg aagagacaga tgatgcttac gtggcaggga accaggttca 112860
aatcatggcg cagggtgcag gcagcgtgac gaaagtctgg gctgataaca ccgactttgt 112920
aaaagagggc gatgttctgg tcacgctcga tcagactgac gccaaacaag cgtttgaaag 112980
agccaaaacg gcgctggcct ccagcgtgog ccagacgcac cagttgatga ttaacagtaa 113040
gcagttgcag gcgaatatcg acgtgcaaaa aaccgccctg gcgcaagcgc agagcgacct 113100
taaccgctgt gtgccgctgg gtaatgcaa tcttattggc cgggaagagc tgcaacacgc 113160
ccgcgatgcc gtcgccagcg cgcaggcaca gcttgatgtc gccattcaac agtacaatgc 113220
caaccaggca atgataacta acagtaatct ggaagatcag cctgcggttc aacaagcggc 113280
gaccgaagtg cgtaacgcct ggctggcgct ggagcgtact cgcacgtca gtccaatgac 113340
cggttatgtc tcccgccgog ccgtccagcc tggcgcgag atcagcccca ccacgccgct 113400
gatggccgtg gtgcctgcaa ccgatctgtg ggtggacgct aactttaag agaccgaatt 113460
agcgaatatg cgcattgggc agccagtgc gattattact gacatttatg gcgacgacgt 113520
aaaatacacc ggtaaagtcg tcggtctgga tatggggaca ggtagcgcct tctccctgct 113580
gccgcgcaa aatgcgacgg gtaactggat taaagtgggt caacgtctgc cggtagcgt 113640
cgaactggac gcccgccagt tagaacaaca tccgctgcgc attggtttat cgacgctgg 113700
caccgtgat accgctaate gcgacggtca ggtactggcc agccaggtac gaacgacgcc 113760
ggttgccgaa agtaacgcac gcgaaattaa tctcgcgccg gtcaataaac tgatcgacga 113820
catcgtagag gctaacgcgg gttaatcctg aggtgcgtgt gatgcaacag caaaaaccgc 113880

tggaaggcgc gcagctcatc atcatgacga tcgcgctgtc gctggcgaca ttcattgcagg 113940
tgctggactc caccattgcc aacgtggcga ttccgaccat cgccgggaac ctgggttctt 114000
ccctaagcca ggggacatgg gttatcacct ctttcggggg ggcgaaacgct atctcgattc 114060
ccttaaccgg ctggctggcg aagcgttttg gcgaagtcaa actgttcatg tggtcgacgg 114120
tcgcctttgc cgcggcctcc tgggcctgtg gcgtatccag cagcctgaac atgctgatct 114180
tcttcgcggt ggtgcagggc gtggtcgccg ggccgctgat tccgctctcg caaagcctgt 114240
tgctgaataa ctatccgcct gcaaagcgtc ccattgcgct ggcgctctgg tcaatgaccg 114300
tcattgtcgc gccgatttgc ggcccgatc tggggggcta catcagtgat aattaccact 114360
ggggatggat tttcttcac aacgtgccga ttggcatcgc cgtcgtcctg atgacgttac 114420
acacgctgcg cggacgtgaa actcataccg aacggcgacg tattgacgcc gtcgggctgg 114480
cgttactggt gattggcatc agcagcctgc aaattatgct cgaccgcggt aaagagctgg 114540
actggttctc ctgcaggaa attatcatcc tgaccgtggt cgccgtcatc gccatcagtt 114600
tcctgatcgt ctgggaactg accgacgac accctatcgt cgatctttct ctttttaaatt 114660
cgcgtaactt cactattggc tgccgtgtga tcagccttgc ctatatgctc tatttcggcg 114720
ccattgttct attgccgcag cttttgcaag aggtgtacgg ctataccgca acgtgggcag 114780
gtctggcgtc ggccgcagtc ggtattattc cggtaatatt gtcgccgatt atcgacgct 114840
tcgcgcataa actggatatg cgcaggctgg tcacattcag cttcattatg tacgccgtct 114900
gtttttactg gcgcgcctgg acgttcgaac cgggtatgga tttcggcgct tccgcatggc 114960
cgcagtttat tcaaggattt gcgctgcct gcttctttat gccgctgacc accattacgc 115020
tctccgggtt accgcccga cggctggcgg cggcatcaag cctgtcgaac ttcacgcgaa 115080
cgctggcggg ctccattggc acctcgatta ccaccactat gtggaccgat cgtgagtcgc 115140
tacaccatgc gcagctcacc gagtcggtta cggcgataa tccaaacgct caggctatgt 115200
acgataaact ggaaggctta gggatgacgc accaacaggc gtcaggctgg atagcccagc 115260
aaatcacgaa tcaggggctg attatttccg ccaacgaaat cttctggatg tcggcgggga 115320
tcttctggt gctgctcggc ctggtgtggt tcgccaaacc gcccttcggt gcgggcggcg 115380
gcggcggtgg cgcgcactaa ctatctgata aaagggatct acggatccct ttttagtag 115440
accaacaatc agaagaaata tttgaatctc agacgccgc cgtaacgcgc atcttactg 115500
ttatcgccat tattcggtt ggcctctacc catgaagcat aggcgccgag gtagatgtta 115560
aagtttttca tatccatcac gttggggaat aaatatgagg catgaatagt gtggatgtca 115620

taattgccgg gatcgggtgat ccagcaatcg tcttcacaaa cggcatcgat attggttagca 115680
ttaaaggctt cgattttggt atgcgcatag atataaccca gttcaaatacg atgccacagc 115740
gcattcacc cagcggtaaa atctgtctca tcggtcgcat ccatataagc ggtattcagg 115800
ttaataactg cgccatcttc cgggtcagtt ttttgacat tccaggtcat ggtaaaacca 115860
tagcccgtag gatctgactg atcgatccac ttcccattct cataatagcc ataggcggtg 115920
ttaacgacgt tactttccat cgctatcgcc gttgaaaaac gcccgttttg ccaggcaata 115980
accggacgga cgtaagccac gtttttatcg ttggttaaat ccattccgtg gtactgcttc 116040
tcggtatata acgtactgcc attttccagc aatgtgttaa cttcgaaata ccagttgtcg 116100
atggttttgc tcagcaggaa gttaccccca ctgtoctac gtccccgtcc ttctttcatc 116160
atatagatat agccgtaacc gtcactgtaa agatcgttcg ctgtattccc cgaatattca 116220
ataaatgtat cctgattcag cgggaacata tcgtaggctt caaaacgacc aaccttaatt 116280
ttccagtcac tctcacgacc aaagaagaaa acggcatcat caaggttcat tttcccggtc 116340
agatccgcca gaggctgtac agagaatccg gcaaaattac cgttgccag ccgctggtag 116400
ccatcaaagc ccagcaacag gcgcccgtta atatcccagc gttcattggt tcctgatgcc 116460
caatctttat tcgctgacgt tctcatcgag gtcaggctac cggaacggct tgccgcatcc 116520
atatataaatt cgacatcgcc atagaactta atatcgctga atccggataa ggtcagcttc 116580
ggcggcggtt tatctgctgc aatgggctcg gcggactgga cattcaccgt cgggtgtagc 116640
gcgacctgct gctgtttcag cgagcgaatt tgcgcctcg catcggtgc ccgtttttca 116700
gcattaacaa cacgttgctc cagttcagcc agacgctgct caatagtgat atcattcgct 116760
gcccaaaggc tatgagaaaa gcaagcaccg atcatcagcg ccaaataatt agccttcatt 116820
ttttatccct taagtttgat gtataccaga taagatttgc taaaaacccc atcgaccggc 116880
tattagtaga gtcttggtat tacctggata tctggcgcat tccattatgt tttctatta 116940
attatttatg attttttagt tatgtgatca atacactctg gcacgtgag ttatccgcct 117000
ttctgttta ccagatcaca ttttattatt taacaggcca ggcattactt aatttaaaat 117060
gtattctcgc cgcaaata ataaacgcaa attatattaa gcaataaaaa accccggcca 117120
taaaccgggg ttaatttaaa tactggaacc gcttaccaat aagactaaat atgcaattcc 117180
tgcagttttt ctttcggcag cgccagctct ttattgctgt tcacgcgcac atcacgctcc 117240
agaatatgac gggcaatgtc ctgcgcttca ctgagcgagt gcatctgata cgtaccgcac 117300
tggtaaacgt tcagctccgg gatctggtt tgatcctgca ctttcagcac atccgccatc 117360

gccgctttcc aagcgtcggc aacacgctgc tcgtccggcg tgccaatcag gctcatgtaa 117420
aagccggtgc ggcagcccat cggcgagata tcgataatct caacgcggtt accgttgagg 117480
tggtcgcgca taaagccagc aaacagatgc tcaagcgat gaatcccttt ttccggcatc 117540
acttctttgt tcggaatgca aaaacgcaga tcaaacacgg tgattgcgtc gccatgcggg 117600
gtgttcacgc tttttgcacc cgggaccgcc ggcgcttgca tccgggtatg atcgactgcg 117660
aagctatcta ataatggcat ttagtcacct ccgataatct tttaaaaata aactgaactc 117720
tttgttccgg ggcgagtcgt agtatatgaa agacgcgcac ttgttatcat catccctggt 117780
ttcagcgatg aaattttggc cactccgtga gtggcctttt tcttttgggt caggcggtgt 117840
tcgcaagcca cgcggcaaac ggctcggat cgcgcgcctc aatctcctgc tgacgacgta 117900
ctgaagcgtc acgttcagca ataaactctt cttcctgtaa aatctccagc ggctcttcgc 117960
gtaacagatt acggttaagc tcaccgaacg ctttccagc gccgccaatg ccttcatcaa 118020
tcatagaccg taagattcgg gcagagaatg tcagttcagg attatcaaag caggcgacca 118080
actcatcaca caccttttga tactcctctc ccccggtgat actgtccagc gtttgcgcca 118140
cgcgtttcag atcgcggaag agatctttcc ctactttagg cagcgggaac tgcgcggttt 118200
cacagccaat cccagggta aggcccggt tactgccttc cagaataacg cgattccagt 118260
tagtacgcgt acataacagc tcatcgctac tcattttcgg cgcacgccc aatacgcacc 118320
agaccataaa cagatcgagg aagcgcacct gttgctcgtc tacgcgcatc ggtgagaacg 118380
gattaatatc gagagaacga acttcgatgt actcaatacc accacgcaga agcgcatctg 118440
aaggcgattc gccgctgcgc gtcacgcgct tgggaacgaat gggcgcgta agctcatttt 118500
caatttgcag aacgttgctg ttaatctgta gccgcttacc gtctttttcc acaccaatcc 118560
gcggtactc ttctgacggc gttttaatcg cccgtttcag acctgcaacg tattcatgta 118620
gatcggttaa cgtaataccc agattgcttt gcgacttatt ggtatagccc aaatcactca 118680
aacgcagcga cgtcgcatat ggcaggtagt acatgcgcga gtccgttttt tcaaacggta 118740
atgtggttgg cttcccttgc aggaaagagg aacaaatggc cggagacgcg ccaaacagat 118800
aggggatgac ccagccaaaa cggtaatagt tgcaaatcag acgaaaatag ccggcagaaa 118860
ttttttcttt tgcgcttcg ctttcgtaa cgcgcattt cgctgccag aacgccatcg 118920
gtaatgaaaa attgtaatgt acgcgggaaa tggtttgcac caaagcgcca taacgatttt 118980
tcagcccttc gcgatagagc gtcttaaagc gcccggtatt tgatgtgccg tactgcgcca 119040
gctctatgtc ctgcccttcc gcaatatagc agggcatact taatggccac atccgctcat 119100

cgcccagttt cctggcgta taccgatgga gatcgcgcat aaaggtgagc atatgctgga 119160
tatcgccatc gactggcgta ataaactcca gtagggcttc cgcaaatct gtggtaatcc 119220
atztatgggt cagcgctgaa cctaacgctt caggatgaac tgttgctgcc agcgtgccat 119280
cagcattgac acgcagcggt tcgogctcta acccgcgctg tatccccctt aacgcctgag 119340
gatgtttttc cagccaggcc agagcctgtg atacgtccgg gatcaaattg acctcccgcc 119400
tgtccaaatc gttttaataa gcataactgt aatggcggcc atacatgcca aacctacaat 119460
tattaccacc acatcatgcc ctgaaccgtc gccgctgcga gcgcaacata gcgcagcgcc 119520
ttaccaagac acaaaaaaaaa gatcgtccgc cccacaggga tgcgcatcca tcccgtaac 119580
aggcacaaca aatcacgat gaccggcatc cagcttaata atagtgtggc tgcgccataa 119640
cgcttttagc agccagtcgc tttttcctgc caacgcgacg ttttgcgag cggaagaaa 119700
cgcccaagaa taacgttagt taccctcca aggtattac ccattgttgc tgttaagact 119760
aagaccagg gatgactgac gccggagacc agcatagcaa ccaaaaccac ctgagaatta 119820
ccgggtaaca gcgtcgcgct gagaaaacta ctggcaaaaca gagacaggag cgacagtccg 119880
tcactcacia tagtcggaca tccacggcat ccattccgc cgcccgcgcc gcctgtaaac 119940
caaatcggc atcttcaaat accacgcaat gcgtcggcat gacgccatc cgctgggcgc 120000
acaataggaa ggtgtcaggc gcaggtttgt gatgctgtac gtgatctgcc gccacaaccg 120060
catcaaaata acgacgcagc cccagatgcg ctaacaaggc ttccgcgata gcgctttcgc 120120
taccggtacc gaccgacatg ggacgcgcc catgccacgc tttgaccacc tcaaccagcg 120180
gcagcggttc tacgcagtc agcaggatgc tttttaccgc gtcggttttc tcacgcgcca 120240
gtgacagggg atcaagatcg gcatggttaa gctcaatgat tgactgggcg ataagccagg 120300
ttggcgaacc gttaagcgcg accattgcct gttcatcaaa acgaagacca tagcgcccca 120360
aaacctcacg ccacgctttg cgatgcgtgg gttcggatat caggagagta ccgtccatat 120420
caaaaatcaa accagcataa cgtgcgtaca tcgtgttctc gcaaaccgaa taaccagaca 120480
gtactttatc gcaattggtt gattttgtcg ctaatagaga tgaagaggta tattcaggat 120540
aagggggaaa agcgattgca gggcagtaac gtatccggga ggattactcg cccttcgggc 120600
cgttgctgat gcaacgttat cttctgatg ccagcgtga ttaccgctat cttatctgca 120660
tcttcatcgc tgaaagtatg gagaatatgg tgcacccggg aggattactc gccttacggc 120720
tcgcocttcg ggccgttgct gacgcaacgt tatccttcct ggtgcctgcg gtgattaccg 120780
ctatcttata cgcatcttta tcgctgaaag tatggagaat atggtgcatc cgggaggatt 120840

cgaacctccg accgctcggg tctagaccga gtactctatc cagctgagct acggatgcat 120900
tgggaaactt gctttactgc tgatattgat accgcggtga aagccgtatc aattaagaga 120960
tggtgtatcc gggaggatta ctgccttac ggctcgccct tcgggcccgtt gctaaccgaa 121020
cgttatcctt cctgggtgccg gcggtgatta ccgctatctt atccgtatct tcatcgctga 121080
aagtacggag aatatggtgc atccgggagg attcgaacct ccgaccgctc ggttcgtagc 121140
cgagtactct atccagctga gctacggatg catcggaataa cttgctttac tgccgatatt 121200
gataccgcgg tgaaagccgt atcaagtaag agatggtgca tccgggagga ttcgaacctc 121260
cgaccgctcg gttcgtagcc gagtactcta tccagctgag ctacggatgc atcggaataa 121320
ttactttact gcagatcttg ataccgcggt gaaagccgta tcaagtaaga gatggtgcat 121380
ccgggaggat tcgaacctcc gaccgctcgg ttcgtagccg agtactctat ccagctgaag 121440
ctacggatgc aaatggcggg gaggcgggga ttcgaacccc ggatgcagct tttgaccgca 121500
tactccctta gcaggggagc gccttcagcc tctcgccac ctcaccacac gcctcttacg 121560
agtgttcga agaacttggt ctgctcatcg tgcgtgcgtg gcgcacatat tactttcttg 121620
gacttataag tcaacaatt tttccagagc ttttatcggt tgcacacttc acgctcaatt 121680
agtctataaa aaagccaaaa agagtgtttt atcaacagat aatttgatga cacgctggcc 121740
gccaaaagcg caccatatca acagtgaggt tgaaaaaagt catgagggga caacgcgggc 121800
gagcgagaag agaggctgcg tctcaccgga aaagtgcgac gcgaaaacct tagtaactgg 121860
actgctggga tttttcagcc tggatacgtt ggtagatctc ttcacgatgg acagaaactt 121920
ctttcggggc gttcagcca atacgcacct ggttgccctt caccctaaa actgtcacgg 121980
tgacctcatc gccaatcatg agggctctac caactcgacg agtcagaatc agcattcttt 122040
gctccttgaa agattaaaag agtcgggtct ctctgtatcc cggcattatc catcatataa 122100
cgccaaaaag taagcgatga caaacacctt aggtgtaagc agtcattgga ttacattctg 122160
ttaaacctaa gtttagccga tatacaaac ttcaacctga ctttatcggt gtcgatagcg 122220
ttgacgtaaa cgccgcagca cgagctgcgg cgccaacgaa cgcttataat tattgcaatt 122280
ttgcgtgac ccagccttgt aactggcta acgctgcagg cagagctgcc gcatccgtac 122340
caccggcttg cgccatgtcc ggacgaccgc cacccttacc gccacctgc tgagcgacca 122400
taccaatcaa ttccctgtt ttaaccgggt cggtcacatc cttcgacaag cccgcaatca 122460
gagaaacctt accttcaaca accgttgcca gtacgataac ggtagacccc agttgatatt 122520
tcagatcatc aaccatgggt cgcagcattt tcggctcaat accagcaagc tcgctgacca 122580

ggagcttcac gccgttgaga tcgaccgctt tactggaaaag atttgcactc tcctgcgctg 122640
cggcctggtc cttcaactgc tgcaactctt tttccagctg acgcgtacgt tccagcacgg 122700
cacgcacttt gtgcgccaga ttctggctgt cgcccttcag cagatgcgca atatcgttta 122760
agcgatcgct ttgcgcgtga acggtggcca tagcgccctc accggttacc gcctcaatac 122820
gacgaatgcc cgctgcggtg ccggactcag agataatacg gaatagaccg atatcaccgg 122880
tacgactggc gtgagtaccg ccgcacagtt cggtagagaa atcgcccatg ctcagaacgc 122940
gtacacgttc gtcgatatttc tcgccaacaa gcgccatggc ccctttcgcc ttgcgcgctg 123000
cgagatccat gatgttcggt tcaatcggca ggttgcgcg aatttgcgca ttcaccaaata 123060
cttcaacctc acgaatctcc gacggcttca tcgcttcatt gtgcgagaag tcgaagcgca 123120
gcactttatc gctaaccagc gaacctttct gcgcaacgtg tgtcccaagc acctggcgca 123180
acgccgcgtg catcaggtgc gtggcggagt ggttcagacg gatacgtgcg cggcgcgctt 123240
catctacgtc agcctgtacc gcatcgccca ctttcagagc gcccgagac aatttgccga 123300
ggtgaccaat cgcctgacca tatttttgcg tgtcgctccac agcgaaagta aatccagcgc 123360
ctttcagctc gcctttatcg ccaacctgac cgcctgattc cgcatagaat ggggtctgat 123420
ccagcacgac aacagcttcc tgtcccgct taatcgcttc aaccgcttta ccatcgacaa 123480
acagcgcagt cactttgccg ttcagttcca gatggtcata acctttaaat tcagaagcgc 123540
tgtcaacgcg gatcatcgcg ttgtagtccg cgccaaaacc gctagcttcg cgcgcgcgac 123600
ggcgttgctc ttccatggcg gcttcaaaac cggcttcgtc gactttgatg ttgcgctcac 123660
ggcagacgtc cgccgttaga tcgaccggga aaccataagt atcatacaga cggaaagcgg 123720
tttcgcgctc cagggtgtcg ccctgcaatt tcgccagttc ttcattcagc agcgccagac 123780
cgcgctccag cgtacgagcg aactgctctt cttcgtttt cagaacctgc tcgacctgcg 123840
cctgctgacg tttcaactct tcgcctgcgg agcccattac ctcaatcagc ggcccaacca 123900
gcttgtagaa gaaggtctct tttgcgcca gcatgttgcc gtgacgaacc gcgcgacgaa 123960
taatgcgacg cagcacatag ccacggtttt cattcgacgg cagcacgcca tcggcaacca 124020
ggaatgcgca agaacggatg tggtcggcga taacgcgcag cgatttatta cccaaatcgg 124080
tggagccggt gactttcgct accgcttcaa tcaacgtgcg gaacaggtcg atgtcatagt 124140
tagagttaac gtgttgacgt accgcggcaa tacgctccag cccataaccg gtatctacag 124200
acggtttcgg caatggttcc atcgtcccgt cagcctgacg gttgaactgc ataaagacga 124260
tgttccagat ttcaatatag cgatcgccgt cttcttcggg gcttcccgga gggccgcccc 124320

agatgtggtc gccatgatcg tagaagatth cgggtgcacgg accgcaggga cgggtgtcgc 124380
ccatctgcca gaagttatcc gatgcgtatg gcgcgccttt attgtcaccg atacggatga 124440
tacgctcgcg cgggatgccg acttctttttt cccagatctc ataggcttcg tcgtcgggtt 124500
catagacggt gaccataag cgtctttttg gcagagcaaa ccagttttcg cgggtcagta 124560
attcccatgc gaactgaatg gcgtcgtggt tgaaataatc gccgaagctg aagttgcca 124620
gcatttcgaa gaaagtatgg tgacgtgcag tgtatccgac gttttccaga tcgttgtgtt 124680
tccccccgc gcgtacgcaa cgtcgggaag tgggtgcacg ggaataatta cgtttatcga 124740
gcccaaggaa aacatccttg aactggttca tcccggcatt ggtaaacaac agagtgggg 124800
cattgttagg caccaggga ctgctggcaa ctacctgat ccctttacta tggaaaaagt 124860
cgagaaacgc ctgacggatc tcagcgggtc tcttgctcat aattatcctg aaatcaagct 124920
aactccatc cttcaggccg cctctgcgtt ggctgcgagt tcccggtca cgcgttcccg 124980
aggctcactt gccgcttta tgccgcttga atgattttgt gtatttaagg aatattcgtc 125040
gcagacgctg ttccgcgtta agcaaccgc gtccagacgg aaaaagtggg aataagataa 125100
gttttcttta ccgggaagta aaatcccgta tgcgtcaat ctgcaaaatt tcgcatatt 125160
tgctggatat cgtccatcag ataccgcga tagagcaaaa agcgtgtac cttaaccttt 125220
tctgaaaagt ttgaaggag cggctcgcca tatttgcga cggcctgttc acgtgccatt 125280
tactccagt caatttcaca ttctcgcac gctttttcag tcgattcacg ggaaatgcct 125340
ttctgattca actcctggcg aatacgcgc gggccatagc ctttgcggct acgactggcg 125400
ataaagcgca tcacgaagcg ctgcgtatca agatagtggg gtctcgtggc ccaggcgatc 125460
acgcgttcat aatcgtctgc cgtcgcacat atctcttcg gccattttt gcccatcacc 125520
ggcgcggaga gtttacgcg tagttcctgc tcgctgtgat cgcggacagc aagaatacgt 125580
accgcacgat caaggagac agcataagcg ggacggcgcg atgtgggttc actcataaaa 125640
aaccttaaca ggggtaaatg ccaaaagggc cgcataaatg cagcccttga tggtaattha 125700
acgttttgct gaatggcgcg ttctgtttgt ccgaccacc atcacctgat gattaataat 125760
cttcgttggg ttctgcaacg ccttcgctat cgtcaacggc gaaatcgggc gtggcattct 125820
gattactcaa cagtaattca cgcactctt tctcgatctc tttcgtgtt gccgggttct 125880
ctttcagcca ggtagtgcg ttcgctttac cctggccaat cttctcgcg ttgtagctgt 125940
accatgcgcc cgttttctcg atcagcttct ctttcacgcc caggtaacc agttcgccat 126000
agaagttgat gccttcgcg tagaggatct ggaactcggc ctgcttaaac ggcgcgcgca 126060

ttttgttttt caccactttc acacgcgttt cgctaccac gacattatcg ccttctttca 126120
ccgcgccaat acgacggata tcaagacgaa cggaggcgta gaatttcagc gcgttaccgc 126180
cgggtggtggt ttccgggtta ccaaacaatca cgccaatttt catacggatc tggttgatga 126240
agatcagcag cgtattggac tgtttcaggt tccccgccag cttacgcacg gcctgggtca 126300
tcatacgcgc cgcgaggccc atgtgagagt cgccgatttc gccttcgatt tccgctttcg 126360
gcgttagcgc cgctacggag tcgaccacaa tgacgtccac cgcgcctgaa cgcgccagcg 126420
cgtcacagat ttccagcgcc tgctcgccgg tatccggctg agaacagagc aggttatcga 126480
tatcgacgcc cagcttgctg gcgtaaacag ggtcaagcgc gtgttccgca tcgataaacg 126540
cacaggtttt accttcacgc tgcgcagcgg caatcacctg cagcgtcagg gtcgttttac 126600
cggaagattc cggcccgtaa atttcgacga tacgccccat cggcagaccg cccgcaccga 126660
gtgcgatatc cagtgaagc gaaccggtgg agatagtttc cacatccata gaacgggtctt 126720
caccagacg catgatggag cctttacaa attgcttttc aatttgccc agtgctgccg 126780
ccaacgcttt ctgtttgttt tcgtcgatag ccattattac tcctgtcatg caacttggtg 126840
ttgaaccgga tagtgaattc gtactgttga agcaattata ctgtatgctc atacagtatc 126900
aagtgttttg tagaaattgt tgccacaggg tttgtagcgc gtatgtcgtc gcctgtcgac 126960
gcaccgattc acggtcgccg ctgaagcatt cccgacgcgt aatcccttct cactgacgc 127020
tggcgaaagc aaaccacacc gtaccaaccg gcttttcttc actgccgcca tccggcccgg 127080
caatcccgt aatagcgaca gcaaaatcgg cgcgagcggc cttcagcgcc ccgatcgcca 127140
tttcgaccac tacggattcg ctgaccgcgc catgctgcgc cagcgtctct tcacgcacgc 127200
caatcatctg cgctttggct tcattactat aggtgacaaa gccgcgttca aaccaggcgg 127260
aacttccggc gatgtcggta atggctttcg ccagccagcc gccgttacag gactccgctg 127320
tcgttacggt cgcgccgcgc gcttttaacg ccagcccagc ctgttcgcta agccgcatca 127380
gttcaactgtc agtcatcatg acctctgtca gttagaaatc ctgccgaca agatagcact 127440
ttctcaccag agatggggac gagctgtcga ttttacgagt cggattccga aaaaatgcc 127500
gcaggttatt tatgcagaat gaaagaggta gcacatgact aaatagcagt actatgtcgc 127560
taaatttaca cgcacggaga gaaagcaagg atgtcactca aaaaaacgga aagcgcacag 127620
caciaactga acaaacctg tcaactacgg ctgtgggtta ttgtgggtgg agtatgttca 127680
ttaggaatgg gagtactgaa tatattgtcg tcaggctatt ttgaaccgta tgacggcggt 127740
caaattatct taggcctggg atgtctgggt tatagtctgg cactatcaaa aaagatatcc 127800

cacttgcaag cccaaaaagc catagtaata gcggaggggg gctcccctcc ctaagcgtaa 127860
attagcgcac ccgcgccagc gctaccgcct gcccagttg ccaaaccgcc atcgcataat 127920
gcgtgctgtg gttatatcgg gtaatggtgt agaagttcgg caggccgtac cagtactggt 127980
atcccgtacc gatatccaga cgcagcaggc tggcttcctg atgattgccc aacgattgct 128040
gcggcggttaa gcctgcggcg gcaagctgag agatgctgta ttttgttttg aaaccattcg 128100
ccaaccagg cgctgacca ctgcgcggca ccgcaaccat atcgcccttc acccaaccat 128160
gcgccttgaa atagttcgcc acgctgccga tggcatctac cggatccac aagttaatgt 128220
gcccatcgcc attgaaatcg accgcatatt ctttatagga agacggcata aactggccgt 128280
agcccatcgc gccggcaaag gaacctttca gattgagcgg atcgtcttgc tcatcgcgcg 128340
ccatgagcag gaaggtttcc agctcgccgg agaaatattc cgcccggcgc ggatagttaa 128400
atgacagcgt cgccagcgcg tccagaatcc gtgttttccc catgatacgt ccccagcggg 128460
tttccacgcc gatgatgccc acaatgattt ccggcggtac gccgtatacc tgccaggcgc 128520
ggttcagcgc gtcttcatac tgattccaga acgcgacgcc gttttgcacg ttatccggcg 128580
taataaattg tttgcggtag cgcaaccagg cgccatttgg tccggcgggc ggctgagtgg 128640
tcggcgcttg tctgtccatc agacgcagaa cgtaatccag tcttttagac tgcgagagga 128700
tctcttgacg ctgctgacgg tcgaaaccgt gtttactgac cattttatca atgaactgct 128760
gcgcattagg gttgttggcg aagtcgccgc ccatttgcac gacgttatgc tgcggctcaa 128820
gcaggaagcc gccggaaggc gtgcccgctg tcgcttgagt ctcggaagat tttggcgtgc 128880
tgctacaggc agcaagcaat acgcaaagtg gaagtaacgc tacataacga cgcttgaaca 128940
tgagacatcc attaaacaaa ttcagccagg gagaagtatg gtaaagcatc ccccgccgc 129000
acaaggaagc ggcacaagag aataaatcac ctttcccctc tctccagttt gtatctgctc 129060
ctccactccc tcaatctttc aagttaaaat atttttcttt tattttgaga tcaaaataac 129120
acttttatac ctttcaacat gattacaatg agcaggaagt tagcaagaaa actaaaaacc 129180
ctacaggaga gaacaatgat cgaaaccatt acacatggtg cggagtgggt catcgggtta 129240
ttccagaaaag gcggtgaggt gtttaccggt atggtgacag gtattcttcc gctactgata 129300
agcctgctgg ttatcatgaa tgcgctcatc aattttatcg gccagcagcg tattgagcgt 129360
tttgcccaac gctgcgccgg aaatccgcta tcccgtacc tgcttttacc gtttatcggg 129420
acgtttgttt tttgtaatcc gatgaccctg agtctgggac gctttatgcc ggagaagtac 129480
aagccgagct attacgcggc ggctctctat agctgtcact ccatgaacgg tctgtttccg 129540

catatcaatc ccggcgaact gtttgtttat ctgggtatcg ccagcggact caccacgtta 129600
gggcttcctc tcggcccgct cgcggtgagc tatctgctgg taggtctggg gacgaacttc 129660
ttccgcgggtt gggtcaccga tctcaccacc gctatTTTTg agaaaaaat ggggattcaa 129720
cttgagcaga aagttcatct gacaggagcg gtatcatgac acgggttcgc attgagaaag 129780
gtgcgggagg ctggggcggc ccgcttgaac tggacgttac gccaggcaaa aagatcgtct 129840
atatcacagc cggtagcgcg ccggcgatcg tcgacaaact ggcgcaacta acaggctggc 129900
aagcggtgga cggctttaa gaaggcgaac cgccggaagc ggagatcggc gcggccatta 129960
tcgactgcgg cggtagcgtg cgctgcggta tctacccgaa acgccggatt ccaaccatta 130020
atattcactc gacgggtaag tccggccac tggcgagta tattgttgaa gatatttatg 130080
tctccggcgt aaaagaagaa aacattactc tagtcggcga aacatctgcc agaccccgagc 130140
ctgccaaaac gacattagga cgtgactacg acaccagcaa aaaaatcacc gagcagagcg 130200
acgggctgct ggcaaaagtc ggtatgggaa tgggttctgc cgtggcggtta ctgttcagc 130260
ccggtcgcga caccattgat acggctcctga aaacaattct gccgtttatg gcgttcgttt 130320
cggcgctaata cggcatcatt atggcctcag gtcttggcga ctggatcgcc cacggcctgg 130380
cgccattagc cagccatcca ctggggctgg tgacgctggc attgatctgc tctttccgc 130440
tgctgtcgcc ctttctcggc ccaggcgcg tttatcgctca ggttattggc gttctgatcg 130500
gcgttcagat aggtctgggc aatatcccc cgcactctggc gctgcccgcc ctgttcgcga 130560
ttaacgcgca ggcggcctgc gactttatcc cggtcggcct gtcactggcg gaagcgaaac 130620
aagacaccgt tcgcgtcggc gtaccttctg tgctggtcgg acgcttcctg accggcgcg 130680
ccacggtact tatcgctgg tttgtttccg gctttatcta tcaataagag gttcagacat 130740
gagcgtgatt tatcaaacca ccatcaccgg catcggccag agcgcgatgg aggcgctcg 130800
cgaaaagatg ctgattacgt ttcggaagc cgcgccggcg gatatcgaag aattttgctt 130860
catccattgt catggcgaac tgaccggcg gctgcagcct ggcgcgcggt gtgaactggg 130920
ccaacattgc tatccggtca cggcggtcg cagcgtagcc gagcaaaacc tgcgtgaact 130980
ggggcatatc accttgcgct ttgatggtct gcgcgaagcg gaatttcccg gcaccgtaca 131040
cgttgcgggg cctgtaccgg acgatatcg gccgggctgt attttgacgt ttgtcgctta 131100
aggagaaaaa acatgaatca agttgccgtt gtcattggcg gaggccagac cctgggggca 131160
ttcctttgcc gtgggcttgc agaagaagga taccgctgg cggtcgttga tattcaaagc 131220
gataaagccg cgaatgtcgc ccaggaaatt aacgccgatt ttggcgaagg tatggcctac 131280

ggttttggcg cgcacgccac cagcgagcag agcgtgctgg cgctgtcccg cggcgtagac 131340
gagattttcg ggcgcgtcga tctgctggtt tacagcgcggt gtatcgccaa agcggcggtt 131400
atcagcgatt tccagttggg cgattttgac cgctcgctac aggtgaatct ggtgggctat 131460
ttcctctgcg cccgtgagtt ttcccgctg atgatccgag acggcattca ggggcgcatt 131520
attcagatta actctaaatc cggcaaagtg ggcagtaaac acaactccg ctacagcgcg 131580
gcgaaattcg gcggcggtgg gttaaccag tctctggcgc tggacctggc ggaatacggc 131640
attaccgtac actcgctgat gctcggaac ctggtgaaat cgccgatgtt ccagtcattg 131700
ctgccgcaat acgccactaa actgtgcatt aagcccgcgc aggtggaaca gtattacatt 131760
gataaagtac cgctcaaacg cgggtgtgat tatcaggatg tgctgaacat gctgctattt 131820
tatgccagcc cgaaagcgtc ttattgcacc gggcagtcga tcaacgtaac cggcggtcaa 131880
gtgatgttct gaccgtgaat tgccggatgg cgccgtaggc cggataagac ggttacgccg 131940
ccatcaggca aaacaacagg agcacattat ggtttccact ctgattaccg tcgccgttat 132000
cgctgggtgt gcacaactgg cgctgggagg ctggcagatt tcccgcttta atcgggcttt 132060
cgataaactt agccaacagg gacgggtcgg cgctgggagc tccggcgggc gttttaagcc 132120
ccgggtggtg gttgccgtgg cgctggacga acagcagcgg gtgacggaca ctttattgat 132180
gaaaggcctt acggtattcg ccagaccggt taaaattgcc gcaatgcaag gaaaacattt 132240
gcatgaatta cagcctgatg tgatctttcc ccatgattcg ctgcgcgaga atgcaactatc 132300
attggcgctt aaactgaaac atgggtaatt tcgttgtaa tgcaatagc ttgcgaaatt 132360
atcattttgc aacctatacc ctaaataatt cgagttgcag gaaggcggcg acgcagcgaa 132420
tcccctggaa cgtacatcaa taogtgaccg gggtagcga ggaaagccaa cgcacatgca 132480
gogtgaagta ttacgggtaa atacataagt cagggtaatc acgcctatga aacctcgtca 132540
gogtcaggcc gcgattctgg agcacctgca aaaacaggga aaatgctcgg ttgaagaact 132600
ggcccagtac ttgacacga caggcaccac tatccgtaaa gatctggtca ttctggaaaa 132660
tgccggaacc gtcacccgca cctatggcgg cgtggtgttg aataaagaag agtccgatcc 132720
gcctattgat cacaaaacgc ttatcaacac ccacaaaaaa gcgctgatag ccgcagccgc 132780
tgtgaaatat atccatgatg gcgattccat tattctggac gccggaagta ccgtgttaca 132840
gatggtgccg ttgctttcgc gtttttagcaa catcacggtg atgaccaaca gcctccatat 132900
tgtaaacgcg ctatcggaac tggacaacga acaaaactatc ctgatgcccg gcggcacctt 132960
ccgtaaaaaa tcggcgctcgt ttcacggtca actggcggaa aacgcctttg agcaattcag 133020

ctttgataaa cttttcatgg gaactgacgg tattgacctg aatgtcgggtg tgaccacggt 133080
caatgagggt tacaccgtca gtaacgcaat gtgcaatgca gcacgcgagg tgattctgat 133140
ggcggactcc tcaaaatttg gtcgtaaaag ccccaatgtg gtgtgcagtc tggaaaccgt 133200
cgacaaactg atcacggacg cggggatcga tccggcattt cgtcaggcgc tggaaagcaa 133260
agggattgaa gtaatcataa ccggagaaag caatgagtga tgcactacta aacgcggggc 133320
gtcagacctt aatgctggag ctacaggaag ccagccgtct gccggagcgt ctgggcgatg 133380
attttgtccg cgccgccaat atcattattc actgtgaagg caaagtgatc gtttccggta 133440
ttggtaaadc aggtcatatt ggtaaaaaaa tcgccgcgac gcttgccagt accggtactc 133500
ccgctttttt tgttcatccg gcggaagcac tgcattggca tctggggatg attgaaagcc 133560
gcgacgtgat gttatttata tcctattccg gcggcgcaaa agaactcgac ctcatcatcc 133620
cgcgtctgga agataaatcc gtcgcgtgc tggcgatgac cggtaaacct cactctccgc 133680
tggggcgagc ggcaaaagcc gttctggata tttccgtcga gcgtgaagcc tgtccgatgc 133740
atctggcgcc gacatccagt accgtcaata cgctgatgat gggcgatgcg ctggcgatgg 133800
cggatcatgca ggcgcgcggt tttaacgaag aagatttcgc ccgttcgcat ccggctggcg 133860
cactgggcgc gcgtttgctc aataatgtgc atcacctgat gcgccagggc gatgcaatac 133920
cgcaggtgat gctcgccacc agcgtgatgg atgcatgct ggaacttagc cgtaccgggc 133980
tggggctggt ggcggtttgc gatgagcaac atgttgtgaa aggcgtcttt accgacggcg 134040
acctgcgtcg ctggctggta ggcggcggcg cgctcaccac gccagtaagc gaagccatga 134100
cgcccaacgg tattacgctc caggcgcaaa gccgcgccat tgacgcaaa gagctcctga 134160
tgaaacgcaa aattaccgcc gcgccagtgg tcgatgaaaa cggcaaacct accggcgcca 134220
ttaacctgca ggatttctac caggcgggga ttatctaata cttcagtecc agacgcttcg 134280
ccagccgatg caggttggcg acgtcggttt ccagcgcccg cgcactggcc gccagttgt 134340
gattattttg cgccagcgcc tggcgaatca tctctcgtg gaagttctcc gtcgattcgc 134400
gcaaattgcg gcaggccggc aacgccagaa agctttccgc agacggcgcg ggtaaacgt 134460
cctctgacaa ggcaaaatgc tgctcctcca gtaccacctc atcccctgcc cgggtcgtc 134520
tcgccagtac aaccgcacgg tgaatggcat gttccagctc ccggacgttg cccggccagc 134580
catagttgag caaatggcg cgcgcgccgg gactcagtac cacgcgggac agccccagcc 134640
gcagtcggca ctgctcgcaa aaatagcccg ccagcaacac cacatcatcg ccgcgctcgc 134700
gcagcggcgg cacaagagc gggaaaacgc tcaggcgatg gaacagggtc gcgcgaaaac 134760

gccccgccag cacctcttca cgcaggtcac ggttggtcgc cgccaacacc cgcacatcca 134820
cgcgcaggct acgatcgctc cgcacgcgct gaatatcgcc atactgcaac acgcgaagta 134880
gcttggcctg tagcgccagc gacagttcgc caatctcatc cagaaacagc gtaccgttat 134940
ccgccatttc aaactttacg ctacgattac tgatagcccc ggtaaaagcc ccttttacat 135000
gaccaaaciaa ctcgctctcc gccacgcttt ccggcagcgc ggcgagttg agatagacca 135060
ggcgattgac cgctctgggg gagccctggg gaatagcttt cgccaccagc tctttaccgg 135120
tccccgtttc accgcccgatc agcacgttaa gatcggagcc cgccacaatc tcgatctctt 135180
ttttcaactg cgtcatcgcc ggcgacagac cgatcatgtg cgtctctttt atcggttcaa 135240
acacgcctga cgaccccggc agcatgttct ggctttccag ttgttcaatt aacagcgcat 135300
tactcaatgc cccggcgggc agcgcgggca caagccgtag ttcttcatcg ctaaatacct 135360
cgaactgctc cggcgtcata gcatcaaggg tcagcgcacc gatgaggttc tgtccggcaa 135420
acagcggcag accaacacag gcgtggactt tcaggctttc ctgtccggga attaacccgt 135480
catatggatc gggtaaactc ctatcagccg gaaaacgcac cacgtccccg gcgcggggcga 135540
tggtctccag gcgcgggatc ccttccaggg taaaacgtct gccgaggacg tcctgcgcca 135600
ggccatcaat cgccagtgga ataaattgtc gtgattcata acgcagcagc gccgaggcgt 135660
cgcacgccag cacctgacgc agcgtagtaa tcagccgctg aaaacgatcc tgatgcccaa 135720
tgccgcgttg taactcaatg gcgatgcccg ccaatacctc cacggaaaaa ctcatggtta 135780
cctcattgtc attttgacaa tctatagtgt catattgaca gcatcattta tagtcttttt 135840
gactatacca aaaatacaaa attattataa tticatatata atcaataaga tgtaaagttg 135900
gcacactacc tgcaataagc aaaacaactt ttgcaaacg ttgaatgaat tgaggtgggt 135960
atgtctattc tggttaaaaa taatattcat tgggttggcc aacgcgactg ggaagtacgt 136020
gattttcacg gcactgaata caaaacgctg cgtggcagca gctataacag ctatctcatt 136080
cgtgaagaaa agaattgtgt gatcgatacc gtgatcata agtttagccg tgagtttgtg 136140
caaaatctgc gcagtgaaat cgacctcgcg gacatcgact acatcatcat taaccatgcc 136200
gaagaagacc atgcaggcgc gctgaccgaa ctgatggcgc agatcccga cagcctatc 136260
tactgtaccg ccaacgccat tgactctatc aacggccatc accatcaccg ggaatggaat 136320
tttaaggtgg tgaaaaccgg cgatacgctg gatatcggcg acggcaagca gttgatcttc 136380
gtggaaacgc cgatgctgca ctggccggac agcatgatga cctatatgac cggcgacgcg 136440
gtgttattca gcaacgcgc ctttggtcag cactactgcg acgagcacct gttcaatgat 136500

gaagtggacc aaactgaact gtttgaacaa tgccagcgct actacgcaa taccctgacg 136560
cogttcagcc gtctggtaac gccaaaaatt accgaaatcc tcggcttcaa cctgccggtg 136620
gatatgattg ccacctcaca cggcgtggta tggcgcgaca acccaacgca aatcgtggag 136680
ctgtatctga aatgggcggc agattatcag gaagatcgta tcactatctt ctacgatacc 136740
atgtcgaaca atactcgcat gatggcggat gccatcgcac agggatatcaa tgaagtggac 136800
cccaacgtgg cggtcaaaat ctttaacgtc gcccgacgag ataaaaatga aatattgacc 136860
aacgtcttcc gttcgaaagg cgtgctggtc ggcacttcta ccatgaacaa cgtgatgatg 136920
ccgaaaatcg ctgggtctgtt ggaagagatg accggcctgc gctttcgcaa caaacgcgcc 136980
agcgccttcg gttctcatgg ctggagcggc ggcgcggttg atcgactgtc cagcgcctta 137040
caggatgccg gttttgaaat gtccctgagt ctgaaagcga aatggcgtcc ggatctggat 137100
gcgctggagt tgtgccgtca gcatggctgc gacatcgccc gtcagtgggc gcttgctccg 137160
ctgccggaaa ccacacagaa aaccgcgcca gtcgaaagaaa ccacaacctg caccgccgca 137220
gacctcgccc ccaaaatgca atgcagcgta tgccagtgga ttacgaccc tgcgctgggc 137280
gagccgttgc aggatgtcgc gccgggtacg ccgtggagcg acgtgccgga taacttctg 137340
tgcccggaat gttcattagg taaagacgtg ttcgacgtac tggcgacgga ggcaaatga 137400
gtcgggggat catcattatt gggtcgggct tcgccgcccg ccagctcgtc aaaaatatcc 137460
gtaaacaaga tgcgcatgtg ccgttaactc tgattgcggc ggacagcatg gatgagtaca 137520
acaagcccga tctcagccac gttatcagcc agtcgcagcg cgcgatgat ctacccgcc 137580
agttagcggg ggaatttgct gaacagttta atctacgact gttcccgcat acctgggtta 137640
ctgacattga tgccgatgcc catgtggtga aaagtcagga taagcagtgg cagtacgaca 137700
agctggtact gacgaccggg gcgacagcct ttgtgccgcc gattgcagga cgtgagttaa 137760
tgcttacttt gaatagccag caggagtacc gcgcctgtga gacaccactg cgcgacgcgc 137820
agcgagtgtc gattgtcggc ggcggtctca ttggcagtga attagcaatg gatttctgcc 137880
gcgccgggaa aacggtaacg ctgatggata acgcccag ccttctcgcc tcaatgatgc 137940
caccggaagt gagcagtcgc ttacagcatc acctgaccga tatgggggtg catctgctgc 138000
tgaaatcgca gttgcaaaaa ctggagaaaa ccgaagccgg tatccgcgct acgctggtaa 138060
gccagcatag tattgaggtc gatgcggtga ttgccccac cggcttacgc ccggagaccg 138120
ctctggcgcg ccgcgccggg gtagccgtca accgcggcgt ctgcgtggat agctatctac 138180
agaccagtca cccggatatt tatgcgatcg gcgattgcgc ggaaatcaat ggtcaggtgc 138240

tgcccttctc gcaaccgatc cagttaagcg cgatgtacct ggcgaaaaat ctgctcggcg 138300
gcaacgcgcc gctgaagcta ccggcgatgc tgggtcaaagt caaaacgccg gaactgccgc 138360
tgcatctggc gggagaaact cagcgccgcg atttaagctg gcagattacc gcagaatctg 138420
acggtatgat tgccaaaggc atgagtggag aaggccagct acgcgccttt gtggtgagtg 138480
aagaccgcat gaaagaggcc tttgcactgc tgaaaacggt gtcggtataa gcctgtgatg 138540
ccggatagcg ccgcttcgcg tcttatccgg cctacgagtg agcatctgtt tacacgccgg 138600
ataaggcgca gccgccatcc ggcgcctac acttcctta acgctcgcgc tgcggcaatc 138660
acgcctgtc caaacgacag tccgcgctcg ccgcgcgta accgctgcgg aaataacaat 138720
ttaaaatcag aaagataaaa ggcaagacgc gcgcgcagta agcggttggt tatcaccccg 138780
ccgctgaaga ccagagtggg tatccccgc gccgtagcct gttggcgcat tagcgtggca 138840
aaccgcacg ccagcgcac atgaaaagcc caggcgcggt gcgcgggcgt ggctgccag 138900
ttcaaccatt gccgccagaa aacagcgacg tccagttgag cgcggttaag cggcatcggt 138960
accggatact caacgttagc gcattgagag gccagcgct ccagcgcga ggccgcctcg 139020
ccctcatagc taagcgatgc tggcgcgag cgaagcgcgg cagccaccgc gtcaaacaac 139080
cgcccgagc aagaggccaa cggggcattg acgccgcgt caatggcgcg cgcaggaca 139140
ctccagtttt gctgttgag ccccgctgtc tccgggtaat tctgccagtc cggcacaag 139200
cgcaggcact gcgctaacag attacgccac ggctgtttgg cagccagatc gcctcccgcc 139260
agcggcacg cgggtaaac gcctaaatgt tcgcattcgc gataattgac ccgcaaacat 139320
tctccgccc atagcgcgc attctcacc atgccgatac cgtctaccgt cagggaatc 139380
acctctcgc cgtccagcg ccaaccatgc tcggccaggc aagccgcgc atgggcatga 139440
tgggtgtaaca ccgtctctgt cggcagacgc atctcactgg cccactgact ggaaacatag 139500
cccggatgc catcacagac gatacgtctt ggcgtaaaat cgtagattga ctggatcaaa 139560
cgcaatgcct cgcgccactg cgcctggata ccgtcatcgc tgagatcgcc taaatggttg 139620
ctgacaaccg cctgttcgcc gcgtaccaga cagaacgtgt ttttcagatc cgcgccaga 139680
caaagtatcg gcggcacatc gcgaaatccg ggccgcaacg caatcgcgtc cggcacgtat 139740
ccccgcgaac gacgcagcat ttcgccgtg tcgcgcacga cagagtcgtc catgcgctgt 139800
acaatgtcgc gattgtgcaa cagaaaacca tcggcaatat cgtgtaaatc gtccagcgcc 139860
tgttcggttg tgatggcggg cggtttgccg ctcaggttgc cggatgtcat caccagcggg 139920
taattgagtg cctgcaacaa gagatgttgc aatgggttg ctggcagcat cagccccact 139980

tccgtaagtc ctggcgcgat gccctcactc agcgaaggta catactgctt atccaccagt 140040
acaatcgggg ccgctggcgt ggtcagcagc gaacgcgccg cggtcggcag cgtttgccgc 140100
gtgggcaaca tcaccgccaa tggtttcgcc ggacgatgtt tacgcgcccg cagcatcgcc 140160
actgcgttat cgttgcgcgc gtcgcaggcc agatgaaaac caccagccc tttaacggca 140220
ataatgcctc cggcgttcag ttgggcgacc gccgcctgca aagccgcctc tttttccgct 140280
cgttcatgtt ggctccgcca ctcaagatgc ggcccgcagt acggacaggc aacgggctgg 140340
gcatgaaaac ggcgatcgta cggatcgcgg tattcgctgt cgcattccgg acacaaggga 140400
aacgccgcca tcaccgtaaa tggccgggtca tagggcatag cgcgaataat ggtgaagcgt 140460
ggtccgcagt ggggtgcaatt gatgaaagga taacggtagc gccgctcgcc tgggggtattc 140520
atctcggcaa gacatgccgg gcaggtcgcc gcatccggca cgatttgctt gttcatcgaa 140580
ccgcctgcgc tctgacgaat ggtgaaatcc gtcggtgcgc gctcccatac caacgacgcg 140640
tggtcaacgc tgtcaatgcg cgccagcggc gggcaatcct gatagagcgc ggcaataaat 140700
tgcgacggat cttccagcag ccgaacgacg acgcccgcgc cgtcattaca cacgtcgccg 140760
tgtaattgca actgctgcgc cagctgccag acaaaaggac gaaaaccgac gccctgtact 140820
ttgccccgaa tgcgtagctg tacgccggaa ggtgtgtcta tcgccatctt attttccgc 140880
catcatcgaa cccggatgcc tgatggcgcg acgcttatca ggccataaac cgcacggacc 140940
gtagaccgga taaggcattg atgccgccat ccggcaatgc tttgtggcgt attctacgcg 141000
caatcgaga aatcagaaaa gcagcgatgc cgttgaatcc agcgcgcac gacggcgttt 141060
ttccgcgctc agctgttcaa gcttattgcg gtccacgcag atgagggcgt gcgttgggca 141120
agcggccata caggccggac cggcttcacg gtggtgacac agatcgcaact tgttggcttc 141180
ggctttttcg gcacgcacgt ttagccccgc gccgctattg cgaaccaccg gacgaaccac 141240
cacttccatg gcgcccgaag gacatgccac tacgcaagtt ttacagccaa tgcagcgttc 141300
ctgcatcaca tgaacaaagc ctttgtcacg gctgatggca ccattcgggc aaacgttggc 141360
gcacggcgca tcttcacact ggcgacacag cgttgccgtg gaaacgttca cgcctttgat 141420
aacatggata cgaggtaaaa aggtttcagg ggtcagcgat gcgcaatcct gattttcctg 141480
atgggatacg acgcaagcca cttcacaggt acggcaacca atgcacttac tcgcgtctgc 141540
aatgatgaaa cggttcatca aattctccag caataacaga tgatgtgccg atatatacac 141600
gaatcgtgcc aatttttatt tcattgttat ttaagaatat tctttctatt ttcgtgagca 141660
tttacgtgtc atcgtcacia gtgtcgatga cacgtaatgt cgccagtggg ggtcaagatt 141720

tgcaagtata gccagccaac tctgcacaga aactggcatc aatcctgatt aacgcctggc 141780
aatacgttac cgcgtattaa acagcgtgc gtaagggaaa gatcgtccgt ttgcggattc 141840
cttcgggcaa taggtttgat aattaattta cggccaggat agtgattaaa gcgggtcagc 141900
gccggataac tcaaccggcc aaaccagccg tgtacgcgct gccagcgggc gtccttcacc 141960
tgatataaat tggttatcca gtagcctgag tcaaactgca tatccaacag ttgcgtgcga 142020
ccattgccct gtaaatcaag caaatcatcg acgccagtat cggtggcggt ataaaacccc 142080
cacggttcaa agacgcaggg gcggccattc ttgagaaagg tgaaaatgat gtattgcgcg 142140
ctcggcgcca ggcccaaccc aggattgcc aaccagataa ccaagtcctg aatgccgtta 142200
cgatcgaggt cagcgcgata aaattgcgca ttaccgcga aattaatcag ccttcccacc 142260
gggacaaccc acgaattacc ggctctgtct tttccgctaa tccgccattc gttatctttt 142320
ttcggctccg gcagtagcgt cacgctactg actccgacct ggcgaaaatg ccaggctctgg 142380
tcgggagata cagaataagg caggatcaaa agcggcttca gcgcacgctt ttgcgcatat 142440
tcaacgctgc tcatcggcag gtaaccgaca acaccggtag ccagtgcgcg tgcggcgagg 142500
cagagaaata gcagtccgct ccatacgata atcttcacgt tcttcttacc gcctatgccg 142560
ggtaacacaa atccatccag aatgagtaag cattttacgc ctccggcgcg tccagcgcgg 142620
caaatccgcc gtttccctgc cagccttcca ggcgctgata gacgatgttt accgcgtcct 142680
taatcggttg agtcatcgga taataaaacc cgacgatatc cggctggata ccaacaaaaa 142740
tcaacctgcc gacatcctct ttcagcagat cgataaggta gttcagcggc atattgtggg 142800
tggatcatcat aaacatttcg gcgatatcat ccggatcgat gatgcggatc tcgcccggat 142860
taagtcccat atcggtggcg tcgacaatca acagacgctg cgggcgcagt tcgcgaatcg 142920
cca caatgtc gttttccggc gcgctgcgc catcgatgac aaccagttg cccttcggct 142980
gcgcgcgcga catttccgcc agtaatgggc ctgcgcgctc gtcgcccac atgctgttgc 143040
cgacacagag taaaacgtca gtcacgaagc ctctcacca tcaggtagat ggcgttttcc 143100
tgatgaatgt catgcagcat actgagcatc agtttgctcc attcttgctg ctgcggggtc 143160
tgcgcggcgc gcgcctcatc aaacgcgcgc gccagcattt gcacatggtt gaaatcgatg 143220
acgatctgc catacttcgg caagccttcc attttacgcc gggcatcgct accggcttcc 143280
agggtggcga tccacgccag atactcatcc catgggcagg tgagcgcggc ctccaggcaa 143340
tcgataaccc ccagggtgtg accaatcgcc aggctgtaat agacaacctg ctgcgcctcg 143400
gcgggcgctc catcgttctc atcaataaac ttacggctca gttgactgaa caccacctgt 143460

tcgctcatcg gatacgcgcc tcttcaacaa catgattgag atggatgaca atttcggtta 143520
aacgcggatc gttttccgct tccagccaac gcgccacttg ctgctcgccc tgccccaact 143580
gtgtcaggta atcatcggcg atctgacgac catagcgata acccgccagc cggcacgccg 143640
cgcgatccac cttcacgcgc agcggctgca ccatatccgg atgcaggatc tctgcgggct 143700
gatcgtccag ctaccccggc gcgcgggctg ggattttctg ctccagcagg ccaagcgcca 143760
ttgcaaagcc atacagcgtg gcggcaggcg ttggcgggca gcctggaatg tacacatcca 143820
ccgggacgat tttgtcggta ccgccccaga cgcagtacag atcatggaag atgccgccgc 143880
tggttgccgca ggcgccgtaa gagatacaa ttttcgggtc cggcgccgac tgccaggcgc 143940
gcagcgccgg agagcgcgat gcgcgggtca ccgcgccggt aaacagcaga atatcggcat 144000
gacgcggcga cggctactact ttgatgccga aacgctcggc atcaaacagc ggcgaaagcg 144060
tcgcaaagat ttcgatttca cagccgttac agccgccgca gtccacgcgg taaacgtatg 144120
ccgaacgctt aataatttttc agtagagacg ccttcatgct ggcgatggat tcatccaccg 144180
tcatcggtac cggaatgccg ttggcgctac gcgggcctaa taaattgctc attagctgac 144240
ctctttcata tggcgagtca gttcaatacg gtccgacggc accaggcatt tctgacgctt 144300
acagtcgggg caggctctca agctttcgcg gtggttttct gctcggctgt cgcggttggtg 144360
cgcaagcagc gcaatggcgt agtcgatctc tttctgtacc gcgaaaggac gattgcacac 144420
gcggcgagttg cacagcgcg aagcgggactg ttgcaggaag tcttctttct tccacactgc 144480
cagttcgtac tcttgcgaca gtttgatcgc cgcggtcggg cacacctctt cgcagcgacc 144540
gcagaagatg cagcggccaa gattgaactg ccacgccagc tcattggtcg caagatcggg 144600
ttccaccgtc agcgcgttcg acgggcaggc attaacgcag gcggcgagc cgatgcactg 144660
ctgoggatta tgttccggct tgccgcggaa gtttttatca accgcaatcg gctccagcgg 144720
ataagacgag gtcgccgtgc cggttttgat aacttttttg ataaaggtaa acatggcgat 144780
tccttatttc agcggcgagt ttttacgctc aatgctgtag cgctcaagtt ctttgtacgg 144840
cacgactttg ctcttcttct tacgtacatc gaccacggtc atccggtcgg tacaggagta 144900
gcaaggatcg aggctaccga tgatcagcgg cgcgtcggag acggtgttgc cacgcagcat 144960
ataacgcagg gtcggccagt tggcgtaggt tgccgcacgg cagcgccagc ggtaaagctt 145020
ctggttgctg ccggtcatgc tccagtggat atcgtcacca cgcggcgctt cagcgaagcc 145080
gagcgcaaaa cgggtcgga ttaggtaaa gccttcacc atcagcgggc cgcgggtag 145140
attatccaga ccgaaatcga tcatattcag cgaggtgtag acttcgttga tacggacttt 145200

-100-

cagacgagaa atcacgtcgc agccctgctc gctatgtact tccatcggca gcagaccgta 145260
gccgacaaac ggggtggtcgg cgcgggtgtc gcggggtga ccgctggcgc gcaccatcgg 145320
gccgacatta ctgaagtcgc gggcaatttc cgggtccaga cggccgatac ccacggtagc 145380
ctgttccata ttctggcgtgc tcagcagcat gtccaccage tcctgcacgt cagcagcat 145440
ctgctgcgcc agttgacggg tctggatcat gtcctctttg agcagatcgc ggcgaatccc 145500
gccgatcagg ttcagaccgt aagttttgcg cgcgccggtc agtatttcgg ccatcttcat 145560
ggaggtttca cgcacgcgga agaactgcat aaagccggag tcaaagccgg taaagtggca 145620
ggcgaggcct aggttcagca ggtgcgagtg cagacgtcc acttcagca gaatggcgcg 145680
gatcatctgc gcacgtcccg gcacctgaat gcccatcgcg ttttccacgg aagtgggtga 145740
ggcagtgctg tgcgcgaaac cgcagattcc acacacgcga tccgacagga aggtgacttc 145800
gttataaacc atgcgggttt ccgccagttt ttccatacca cgggtggacgt agaacaggcg 145860
gtagtcggca tcgataatgt tttcgccatc gacgaacaga cggaagtggc ccggttcac 145920
ggaagtga ca tgcagcgggc caatcggcac cagttattt ttcttgtcac ccagctcgtt 145980
aatgaactcg taggtttccg catcgggtgt cggcgccggg cgctgacgat aatccatgct 146040
gtctttacgc agcggataga gttcatccgg ccagtcgtcc ggcagcacca gacggcgcgc 146100
gtccggcaga ccgaccggga ttaaaccgta catgtcgcgt acttcgcgct caccacacac 146160
ggcagccggc acgcgcggcg taacggatgg gaattccagc ttattggcat ccacttcaac 146220
acggacggta atccagcact tgggtgcctg ctccatcgac agcacgtaat aaacggcata 146280
gtggccgcac aactggcgtt cgtcattacc gaacagcacc gacagccacc caccctgctg 146340
gtagtaaaga aactccacca ctccggcag atagtctact ttaccgtaa tagtcagctg 146400
atctttggtc tgccaggctt cgtccatcac gacgcccgga aacgcctggg gcagcgccgc 146460
aaggtatgt tgacctaat tttcttcaaa catgctcaaa ctctcttaaa tcacgcgcgc 146520
agcaaggaga cgaaggctaa aaacgcaaac ccaaaaccgg ccaggtcac gcgtgaagtg 146580
gcgcaaaaac gcagtcgcgc catgctgttt tcaaacaggg cgatcaccag tacgccgaca 146640
atcagcttga cgacggcaat caccagcgcc agtaacagtc cgctgcgct gaaggtttcc 146700
atctgtccc acggcaaaaa cagccgacg aacatttga gcaccaccag ttgtttcagg 146760
ctgatgccc atttcagcac cgcaaagccg ctaccgctgt attcggtaa cggcccttcc 146820
tgcaactcct gctccgcttc cgccaggtcg aacggcagct tgcccatttc gataaagggtg 146880
gcaaaggcgc aggcgcacag cgccagaatc agcggaatac tgcgcgcgac aggccagtga 146940

-101-

taaatggtat cggcgatatt gctgatatga gttgaacccg ccacctgcgc ggctaccac 147000
agaccagca gcagaatcgg ctccaccagc acgccagca tcgcttcacg gctggcgccg 147060
atcgcagtga acggactgcc ggtatccagg cctgcaatag agaagaagaa gcgcgcaatc 147120
gcgaacagat aaatcagggg gattaaatca ccagttgcg gcaacggaga tccaacggtg 147180
acgaacggca gcgcggtggc gatagtcagc atcacgccga ccatcacaaa cggcgtcagg 147240
cgaaaaaccc agccggaatc agcggggcga atactctgac gaccgagcag ttigataatg 147300
tcgcggtact cctgcaacac gcccggccca cggcgattgt gtagacgggc gcgcgccacg 147360
cgagtaatac cggacagcaa tggcgcaacg gcaaatagca ccagcgctg aattaacgga 147420
taaaacacac tcattttcag gtcctcgtg aaaccacaat caccaccagc accgccagct 147480
caatcagcgc cagacgacgg aacagccccg cggccgccgc gttctgccag ccggcacca 147540
gcgataccgg gttcagccat ttacgcagtt tgagtaccgg ggcaaaggcc tctttcaccg 147600
gcatggcgaa accgtgcgcg gtaatcacca tcgactgctc atggtcgtag ccgcacaccc 147660
aggccgcgcc gcgagaacgc gacggcagac ggttgccctt gaacatcgcc ataatgatga 147720
atggcagtag cggacaggcg accaacagca gcgtgatcat cggtgcgat acggtggtgt 147780
gcgcggtttc cagcggcaac ggtaccgcag tggaaatcat cggcagcagc cacggcgcg 147840
caaccccgcc cagtacgcag caaacgccca atgccaccac gctgacgcc atcaggatcg 147900
gcgcgcagct ggcattttca gcttccttcg tcgcgggcgc gccaaaggaa gtcacgccgt 147960
aaactttcgc catacacatc accgccagcg cgccggtaat cgccaggcca accgccagca 148020
gcggtcctaa cagacgacca acaaacgcgc cgctgttgcc cagtttgaag aaggactggt 148080
aaatcaccca ctgcgggca aagccgttca gcggcggcag cgccgccatc gccatcagac 148140
cgaccagcat ggcgatagaa ataaccggca tccgtttacc aataccgcc agtttttcga 148200
tgtcgcgatg accggtacgg aaccagatgc tgcccgccgc cagtaacagc acgcttttga 148260
acaggctatg gttcagcaga tgatagagcc cgccggtcag acccagcgcg atcagtaccg 148320
gctgattgag agcaatcccg gtaacgcctg cgcccagacc gagcaaatg atgccgatat 148380
tttcagcgt gtgataggcc agcaggcgct gaatgttatg ctccatcagc gcgtacagac 148440
cgccgacaaa ggcggtgatc atcccaagca ccaacagcgc cacgccccac cacagtggcg 148500
cattgccgcc aagcagagat agcgagagaa tgcccagcag ccgattttc atcaccacgg 148560
tcgagaacag cgcggcgcg ggagcgctgg cgttgcgctg cgcctgcggc acccaaccgt 148620
gtagcgggat aatcccgcc agcagaccaa aaccgataac gccgagcagc cagatatcgg 148680

agcccagcgg cagttgctga ggcggttgat ccagcagccc cagatccagc gtgccgtagc 148740
gctgccacac cagccagcag gcgattgcca gcagcagcgt accgagacgg cccagcgcga 148800
accacagttt gccctctttg ctaccgcccg taaggaacac ggcgcagagc gccatgattt 148860
cagccatcac caccatcgtc ccagattac tggcgaccac agcgcagacg gctgccgcca 148920
tcagcaggtt gatcaacagt ccgttggtt ttacctgtgg atggcgatgc cagtcgatat 148980
tgaacaggct gacgaacaga ccgcacagcc ccagcgtaat cagccagata gcattcagcg 149040
gcgtaatttg cagcatgtga ccggtaaaac gcatcacgcc gctaaccgta acggcgctgg 149100
tcagcgcggt gaaccccgcg cctgccgtac acaggctgcc gaccgcgccg ccgataccgg 149160
caatccagcc gctcagcgtt ttatgaaacg aaaacagaaa cgccagaacg gcggcgccgg 149220
caaaccagc gacgccgcta gtaatcagtg aaagtgaact cattatgcat cccactctg 149280
agcctgctga aacaaggctga gatcgccaaa atcggtatta aacgtcagct cacgtttacg 149340
tttgctggcg cgggcgatat ccgtgttctc caccagggtg agcgctttag tcgggcacat 149400
ccgcacacag gccgggcctt gctcgtcaaa gctgcacagg tcgcatttca ccgcgatagc 149460
gcgcacgccc ggaccccagt cgagcaacgt actgacgcgc gcaggcgctg gcggcgccgg 149520
cggcgctttc ggcgatttgg cgttcgccgg aatatgcagc ggacggctgc cggaaaactc 149580
aatagcgcca aacggacagg caataccgca cagtttgtag ctacgcaca ggctttcatt 149640
aagctggaca gcgccgtcaa cgcgattaat cgcgttaacc gggcataccg tggcgcatgg 149700
cgcatcttca cagtgggtgac agagctgcgg cgcagattct ttttcattca gcatcacttt 149760
caggcgccggc attgactgca ggccatgctg gcgatgcgtc tctgaacagg cggcctcaca 149820
ggtgtggcag ccgatacaga gagtggagtc agcaattaca aaacgattca ccaggcattc 149880
ctcaggtgat tgtcattttt gacgaaaaca tgccgttgaa atgtcatttt cgacacttat 149940
cgacacgccc atccccaaa cattcatgac atggcgcaac gccacatcgc gaatcaaagc 150000
gggcaacgcc tcaggcttat acagccgggc tgtgtccctt taccaattgg cgcaaattaa 150060
ccggcgagtt ggtttctaca gcggtataga ggctgtcgta aacgctggcg attttttcca 150120
gatagtgtc cagcacctgc tcgcgatcgc ggttgtaaac ccgttcgtca accttgccgt 150180
cgatatcgag ctgcgcctgt gcaatcaatt gcttatcttc gccatctttg gtttcaacgt 150240
agtactcaat ggtgtggctg ttaaaacat ccgccaacgc aacgtaaata cgaaagtgtc 150300
caaacaggac aaagcaaaga tccctttccg gcgcgcagct cattgcgtga tgcaggcgcg 150360
ctttcgagag ggtgatcccc tgaaccagcg agttgcagta aatatgccac tggtcctgta 150420

ggcgacgatg ccggttgcgcg atgtaatcgg ccttttcgct tatttcccaa atagtcatgt 150480
caggttaccc gtttaacaga gatgcctgcg ttaagcattt tccatgccaa tttttaactt 150540
attgttttta atggaagacg cgcacagtta ctgccgtttc gacgcggtga cgacatgtca 150600
tttcgtcatc gtcgacatta acctgccagg ggatacaaat attggcataa atattgcttt 150660
acaggggcaa ccactacggg aggcgatatg cacgaaatca ccctctgcca acgggcaactg 150720
gaattgattg aacaacaggc ttcagcatac ggtgcaaaac gtgtgacagc cgtctggatc 150780
aaaattggcg cattttcttg cgtggaaacc agcgtctttt ccttttgttt tgatctggta 150840
tgccgcggca cgatagcaga aggttgtaaa ctgcacctcg aagaacagga agccgaatgc 150900
tggtgtgagc attgtcaaca atatgtcacg ttgttaaccc accgtgtacg tcgttgtccg 150960
caatgtcata gcgatacgct gccaattgtg gccgatgacg gcttaciaat tcggcgcata 151020
gagattgatg aaactgaaga ttaatgccg ataagacgct cgcgtcgcca tccggcagaa 151080
agcctgtaac aagaagaaga tcaggagtaa gcgatgtgta cgacttgcgg ttgcgctgaa 151140
ggcaaccttt atatagaagg cgatgaacat aatccgcaact cagcgtttcg tagcgcgccc 151200
tttgccccag cggctcgccc ggcgctgaat attaccggca ttaaaacgcc tgactttacc 151260
ccaagtcaga ccgcagaagg cgatctgcat tacggccacg gcgaagccgg aaccacgcg 151320
cctggtatga gtcagcggcg gatgctggag gttgaaatcg acgtgctgga caaaaataat 151380
cgtctggctg agcgcaaccg cgcccgtttc gccgcccgc agcaactggt gctcaacctg 151440
gtgtccagcc ccgggtccgg taaaaccact ctgctgaccg aaacgctgat gaaattgaaa 151500
gaccgtgtac cgtgcgcggt gattgaaggc gaccagcaga cagtgaacga cgccgcccgc 151560
atccgcgcta ccggcacgcc cgccattcag gtcaacaccg gtaaaggctg ccatcttgac 151620
gcgcaaatga tcgccgacgc cgcgccgcgc ctgccgctgg atgaccacgg tattctgttt 151680
atcgaaaacg tcggaaatct tgtctgcccg gccagcttcg atctgggcga aaagcataaa 151740
gtcgcagtgc tttccgtgac cgaagggtgaa gataagccgc tgaagtatcc ccatatgttt 151800
gccgcggcgt cgctcatgct gctcaataaa gtcgatctgc tgccctacct caattttgac 151860
gttgagaagt gcacgccag cgcgcgtgaa gtgaaccgag agattgaaat tatcctgatt 151920
tccgccacca gcggcgaagg catggatcag tggctggcct ggctggagge gcagcgatgt 151980
gcataggcgt tccgggtcaa atccgcgcca ttgacggcaa tcaggcaaaa gttgacgtct 152040
gcggcattca gcgcgacgtc gatctcacat tagtcggcag ttgtgatgaa aacggtcagc 152100
cgcgtctggg tcagtgggtg ctggttcatg tcggattcgc catgagcgtc attaacgaag 152160

cggaagcgcg cgacacgctc gacgcgctac aaaatatgtt tgatgttgag ccggacgtcg 152220
gcgcaactgct gtatggtgag gagagataat gcgttttgtt gacgagtacc gtgcgccgga 152280
acaggtaatg cagctcattg aacacctgcg tgaacgcgcc gcccttcttc cttacactgc 152340
tgaacgaccg ctgcgcatta tggaagtctg cgggggtcat acccacgcga tttttaaatt 152400
tggtctcgat cagttactgc ccgaaaacgt ggagtttatt cacggccccg gttgtccggt 152460
ctgcgtgctg ccaatgggac gcatcgacag ttgcgtggaa atcgccagcc atccggaggt 152520
gattttctgc acctttggcg atgccatgcg cgtgccgggg aaacagggtt ctctgttgca 152580
ggctaaagcg cgcggcgcgc atgtgcgtat tgtttattct ccgatggacg cgctgaagct 152640
ggcgccagat aaccgcaccc gcaaagtggg atttttcggg ctgggctttg aaaccacat 152700
gccgaccacc gccatcacgc tacagcaggc aaaacagcgt gacgtgcgaa acttctactt 152760
tttctgccag cacattacac tgatcccgac gctgcgtagc ctactggagc agccggacaa 152820
cggcattgac gcctttcttg cgccaggcca cgtcagcatg gtcacggca ccgaggcgta 152880
ccagtttata gcgcgcgatt ttcacgcgc gctgggtggg gctggattcg aaccgcttga 152940
tctactgcaa ggctgtgtca tgctggttga gcagaaaata gcggccctaa gccaggttga 153000
aaaccaatac cgtcgcgtgg tgccggatgc cggaaacatg ctggcgcagc aggccatcgc 153060
cgatgtgttc tgcgttaatg gcgacagcga gtggcgcggc ctgggctga ttgaatctc 153120
cggcgtccac ctgacgccgg agtatcagcg ctttgacgcc gaagcgcatt tccgccagc 153180
gccacagcag gtctatgacg atccgcgcgc ccgctgcggc gaagtgtga ccggcagatg 153240
caagccgcat cagtgcgcgc tatttggtta aacatgtaat ccagagaccg cgttcggcgc 153300
gctgatggtc tcttccgaag gcgcatgcgc cgcttggtat cagtatcgtc agcaggagtg 153360
tgaagtttga acaatataca actcgccac gccagcggcg gccaggctat gcaacagttg 153420
attaatagcc tgtttatgga ggcctttgcc aaccgtggc tggcggaaca agaagatcag 153480
gcgcgtctgg agctggcgca actgacggcg gagggcgacc gtctggcggt ttctaccgat 153540
agctatgtga tcgatccgct ctttttcccc ggcggaata tcggcaaact ggcgatttgc 153600
ggtacggcga acgacgttgc ggtgagcggc gcgatcccc gctatctctc ctgcggcttt 153660
atccttgaag aagggtgcc gatggagacg ttaaaaagcg tggatcaatag catggcgcg 153720
accgcacggg aagcgggtat cgccattgta accggcgaca ccaaagttgt gcagcgcggc 153780
gcggcgata aattgtttat caacactgcc ggcattgggg cgattccgc cgatattcac 153840
tggggcgcgc aaacgctgag cgttggcgat gtgctgttag tcagcggtag gcttggcgat 153900

cacggcgcca ctatcctcaa cctgcgtgag caactgggac tggatggcga gctggcgagc 153960
gactgcgcag tattaacgcc gcttattcag acgttgcgtc atattgacgg agtgaaggca 154020
ttgcgtgacg ccacgcgcgg cggcgtgaat gcggtcgccc atgagtttgc ggcgtcctgc 154080
ggttacggta ttgaattgtc cgaatccgca ctgccgctca aacctgccgt gcgcggcgtc 154140
tgcgagctgt tggggctgga tgccctgaac tttgccaacg aaggaaaact ggtgattgcc 154200
gttgaacggc aggccgcaga tcgggcgttg gcggcattac gcgcgcaccc gctgggacgt 154260
gatgcggcgc tgattggcga agtcgtgga cgcgaaggcg ttgcgttagc cggactctat 154320
ggcgtgaagc gaacccttga tttgccacac gccgaaccat tacctcgat atgctagcag 154380
cctgttggca gcatactgta ggccggataa gacgcatttg cggcgagatc cggcattaac 154440
gctgcattaa cgcctgatgg cgctttgctt atcaggccta cggagtgtgt gaccagcgag 154500
tttgcggtca gccatccggc aataacttac gacttatacc tataattcat ttaccgtttt 154560
cgcaccgttt tgcggtattt tcctggaaaa gcaacatgtc gtatacacc atgagcgatc 154620
ttggacagca aggcttggtc gatatcactc gtaccttatt gcagcagccc gatttggcgt 154680
cgctcagtga agcgcttttc caactggtaa agcgttcagc gctcgccgac agcgccggca 154740
ttgtgctatg gcaggcgagc tcgcaacgcg cacaatatta tgcgacgcga gaaaatggcc 154800
gtcctgttga atatgaagat gaaaccgtac tggcgcaagg cccggtacgt cgcaccttt 154860
ctcgccccga tgcatgtcac tgtaatttcc atgagtttac cgaaacctgg ccgcagcttg 154920
ccgcgagcgg cctctaccct gaatttggtc attactgtct gcttccttta gccgcggagg 154980
gccgtatttt cggcggctgc gaattcatcc gtcaggaaga tcgcccctgg agtgaaaagg 155040
aatatgaccg tctgcatacg ttaccctaaa ttgtcggcgt ggtcgccgag caaattcaaa 155100
accgggtaaa caataatgtc gattatgac tggttggtccg cgaacgcgat aacttccgta 155160
ttctggttgc gattaccaac gccgtcctgt cgcgtctgga tattaatgag ctggttaagg 155220
aagtcgcaaa agagatccac cactatttca atatcgacgc gatcagcatc gtgttgcgca 155280
gccatcgcaa aaataagctg aatatctact ccaactcacta ccttgatgag catcatccgg 155340
cgcacgaaca gagcgaagtc gacgaagccg gcacgctcac ggagcgcgtc tttaaaagta 155400
aagagatgct gcttatcaac ctcaacgaac gcgatccgct tgccccctac gaacgaatgc 155460
tgttcgatac ctggggcaat cagatccaga cgctttgcct gctgccgttg atgtccggca 155520
agacgatgct tggcgtgctc aaactggccc agtgcggaaga aaaagtgttt accaccgcca 155580
acctcaagct gtaacgtcag attgccgaac gggtagccat tgccgtggat aatgcgctgg 155640

cctatcagga aatccaccgt ctgaaggaaac gcctgggtcga cgaaaatctg gcgctcacgg 155700
agcagcttaa taacgtcgac agcgagtttg gcgagatcat cgggcgagc gaagcgatgt 155760
acaacgtgct aaagcaggtt gagatggtgg cgcagagcga cagtaccgtg ctgattctgg 155820
gcgaaacggg aaccagtaaa gagttgattg ccgcgccat tcacaacctg agcggacgta 155880
gcgggcgag aatggtaaag atgaactgcg ccgcgatgcc ggcggggctg ctggaaagcg 155940
atctgttttg tcatgagcgc ggcggttta ccgcgccag cgcgcagcg attggccgtt 156000
tcgagctggc ggataaaagc tcgctgtttc tggatgaagt gggcgacatg ccgctggagc 156060
tacagcctaa gctgctgcgc gtccttcagg agcaagagtt tgaacgtctc ggcagcaata 156120
aactgatcca gaccgacgtg cggctgatcg ccgcgactaa ccgcgatctg aaaaaaatgg 156180
tcgccgatcg cgaattccat aacgatctct actatcggct gaatgttttt ccgattcagc 156240
ttcctccgtt acgcgaacgt ccggaagata ttccactgct ggtcaaagcg ttaccttca 156300
aaatcgcccg ccgaatgggg cgtaatatcg acagcattcc cgcgaaacg ctgcgcacgc 156360
tcagcggtat ggaatggccg gggaacgttc gcgaactgga gaatgtcgtc gagcgcgccg 156420
tgctgctgac gcgcggcaat gtgctacaac tgctcgtgcc ggatatgact gccgtaacgc 156480
ccgatacctc gcctgttgcg actgaaagcg ccaaagaagg cgaagatgaa tatcagctta 156540
ttatacgcgt gctgaaagag accaatggcg tagtggctgg accaaaaggc gcggcgagc 156600
gtctggggct taaacgaacc cccctgctgt cgcgtatgaa gcgattgggt attgataaag 156660
acgcgttagc gtaacgggtt gccgatctg atccggcctg gagatgatgc gcgccgtagg 156720
cctggcgctt ccccttcact tcttgcgctg atatttttcc ggcaattctg gaacggggcg 156780
cttatcgctg ataaggtgcc gcacggtcag gacaggatgc cgcaaagca ttgcgggacc 156840
tgcccaacgc ataatctgct tcatctctc gcgttttagc ggctgatagc agtgcaccgg 156900
gcactgctta caggcggtt ttcctcgcc aaatacgc attatcaagac gtttttgcg 156960
gtaggcgaac agcgcgctgt aatgcccctg caccgctgac gcctgtggac actggtttc 157020
atacagcgcg atcatttttt tgatcgtcag tttttcacga gcgatacgtt taccaggcat 157080
cgtgctctct ccgaacatta agatgcattt attttacacc ttatccctct ttagcactat 157140
cactgcatat cgtcgccatt acgcaaataa gaattatttt catttattca tgccttgtgc 157200
tatataacat agcaaaggct atattcgatg attaattaac cacattgttg cgagggatac 157260
tatgacgaat ctacatcgtc taaaaacact cctgattgcc ggtattgtcg cgatactcg 157320
gctatcgcca gcctatgcaa aagagaaatt taaagtcac accacgttta ccgttattgc 157380

cgacatggcg aaaaacgtgg cgggcgacgc agcgggaagtc agctcgatta ccaagcccgg 157440
cgctgaaatc catgagtatc agccaacgcc cggcgatatt aaacgagcgc agggggcaca 157500
gcttatcctc gcgaatggtc tgaacctgga gcgatggttc gcccgctttt atcagcacct 157560
ttccggtgta ccggaagtcg tcgtctccac cggcgtcaaa ccgatgggca ttaccgaagg 157620
cccgtataac ggtaaaccga acccgcacgc ctggatgtcg gcagaaaacg cgctgattta 157680
tgtcgataac attcgcgacg ccctggtgaa gtacgatccg gataatgcgc agatctataa 157740
gcaaaatgcc gaacgctata aagcgaaaat tcgccagatg gccgatccgt tgcgtgccga 157800
gctggaaaaa attcccgccg atcagcgctg gctggtcacc agtgaaggcg cgttctctta 157860
cctggcgcg c gataacgaca tgaaagagct ttatctcttg ccaattaacg ccgatcaaca 157920
ggggacgcca aaacagggtgc gtaaagtgat tgataccatt aaaaagcacc atattcccgc 157980
catctttagc gagagtacgg tttccgataa acccgcccgc caggtcgcgc gtgaatccgg 158040
cgcg cattat ggcgcggtac tgtatgtcga ttctctgagc gccgctgacg gccctgtgcc 158100
aacctatctg gatctgctgc gcgtcacgac cgaaaccatc gtcaacggca ttaacgacgg 158160
actgaggagt caacaatgag tcaatctgcy attaccgttg atcaagtcac ggtgacgtat 158220
cgcaacggtc ataccgccct acgggacgct acttttcagg tgccctggcg ttcaatcgcc 158280
gcgctggtag gcgtaaatgg ttccggtaag tctacgttat ttaaagcggt aatgggcttt 158340
gtgcatcttg cgcgggggcg tatcactatc ctgcaacagt cagtcaacca ggcgctgaaa 158400
aaaaacctca ttgcttatgt tccacaatcg gaagaagtgg actggtcatt tccggtactg 158460
gtagaagatg tggatgatgat gggacgctac ggtcatatgg gctggctacg ccgtcccaca 158520
gcgcatgac acgcctgtgt tgacgccgcg ctggcgcggg tggatatgca ggaatatcgt 158580
cacaggcaga ttggcgagct gtccggcggg cagaaaaaac gtgtgtttct tgccaggggc 158640
atcgctcagg atggacaggt aatcctgctg gatgaacctt ttaccggcgt ggatgtaaaa 158700
accgaagcgc gaatcatcga tctactgcgg gaactgcgcg atgaaggccg cacgatgctg 158760
gtctcaacgc ataactctcg ctccgtcacc gaattttgcg actatacggg aatgattaaa 158820
ggaaccgtac tggccagcgg ccctaccgaa accacgttta ccgccgcgaa tctggaactg 158880
gcgttttagc gcgttctacg tcatatcgcg ctaagcggag gtgaagagca catcatcacc 158940
gatgacgagc gcccctttat ttcccgcgc gtggccagcg gaggaaaatc gtcatgaact 159000
ggcttggtga gcggtttggc taccagtata tgctcaacgc gatgtgggtc tccgcgatgg 159060
tgggcggtct ttgcgcgttt ctctcctgct atttgatgct caaaggctgg tcgctcattg 159120

gcgatgcgct atctcaactct attgtgcctg gcgctcgctgg cgcctggatg ttagggctgc 159180
ccttctcgct cggcgcggttt ctttcggcg gactggcggc aggcagtatg ctctttctta 159240
accaacgctc acgcctgaaa gaagacgcga ttatcgggct tatcttctcc tctttttttg 159300
gcgtcggcct ttttatgggtg tcgctcaatc cgatgtcggt gaatatccag acgattatc 159360
tcggcaacgt gctggcgatc gcgccagcgg atattacgca actggcgatt atcggcgag 159420
tctcgctgac gattctgctg ttaaagtga aagatctgat ggtcgtcttt ttcgatgaga 159480
cccatgcgcg ttctatcggg cttaatccgg gtcgactaaa attgttggtt ttcactctat 159540
tgtccgtctc taccgtggcg gccctgcaaa cgttggggc gttcctgggtg atctgtctcg 159600
tcgtcacgcc gggcgcgacg gcctggttac tcaccgaccg tttccacgt ctgctcatga 159660
ttgccgtcgt gattggcagc ctgaccagtt ttctgggcgc atggcttagc tactggctgg 159720
atggcgccac tggcggaatt attgtcgtca tgcaaacctt actgttcac acggccttta 159780
ttttcgcccc gaaacaaggc ctgttagcca accgtcgacg cggccgcctg cagaaggagc 159840
cgacatgttc ttagcaacgt tactggaacc ctttcagttt gattttatgg tgaacgcct 159900
tatggtttcg gtcattgtgg cgattccctg cgccttgctg tccgtgtttt tagtggttaa 159960
aggctggcg ttaatggcg acgcaatgag tcatgcggta ttccccggg tcgtgctggc 160020
atatatttg gggattcccc tggcgattgg cgctttcatt gccggattat tttgcgctat 160080
cgccaccggt tatctggacg ataacagccg catcaaacgt gatacgggtga tgggcatcgt 160140
cttttcggg atgtttggcg caggtctggt gctctatgtt tctattcaat cggaagtga 160200
tctggatcac atcctgtttg gggatatgct gggcgtatcg ctgggggata tcgtacaaac 160260
gtcggttatt gcactgggta ttgcgttaat catagggtg aaatggaaag atctcctgct 160320
acacgctttt gaccgcacc aggcgaaagc cagcgggctg aatacgacgc tactgcatta 160380
tggcctgcta tgtatgattg cgctgactat cgtcgccacg ctgaaatcgg tgggcattat 160440
tctgtcgatt tcattgctta tcgcccccg cgcaattgcc attttgctga cgcgacgctt 160500
tgcgcgcgcg ctgggattag cggtagtct gtcagttatt accgcttttg cgggcgtcta 160560
tctgtctttt tatcttgata gcgcgccagc gccgaccatc gtggtattat ttgccatcgt 160620
gtttattgcg gtatttattt acgcaacatg gcgcgacagg cgtaatgaaa tcgtaccaga 160680
ggcgcaaggt taacagcagc gttcagaaaa taaatacgac agttgtagta gaaagccacc 160740
ctatatctgt tgttggtcag tatggtaagc agctatcttt aaatttcttt acaacaagcg 160800
taaagataag ctgctttact ccccatgttt ttctgtttc gaaatttttt cagagtttgg 160860

ctaaccacgc ataatgtgat tattactcac aagatctgta atatcccagc aaaaaataaa 160920
tttataacta cacgtaatac aagagagtga ttgtcacata aaaaatagtt taattcattc 160980
ctactgcaat cggtaacgcg caattatcgt caggtagacg agggttatgt gcaaaagcag 161040
tgcgctgtaa atgcgcgtct agtttcagtc cccgaaacag agatagcggt gaagagtcca 161100
tccccaaacg atacataaacc ttcttacgat aaatactgac ggTTTTTgtt cccagaccaa 161160
atTTTTtgc cagttcaatt gccggatgtc cggaggataa taatatcagc agcgcatatt 161220
tcgcctgcgt gacaccggga ggtagattcc accaggcgta ttgattgata ttaaacaata 161280
cctcttcogg cgtctcgccg gcattaaaag catacgtagc agccacgggt ttcttttgtg 161340
gcctgtggca gaaacgcagc caggcttcgg gaagacggag cttctctgc tccgagcgga 161400
tagcgcagga tagttcgtct tttaaaacat aatccataac gccaaaatat tgcagcacac 161460
agcgatcgat ataatacaag cgatctgcca ctaccaaacc ttacgggtc tgcaaccgcg 161520
cctgcaacgc atgaaaaaga taaacatgct catgcgggtt caaagctaaa atcagcccg 161580
cgtcgggcat atcggataga gaatgcaaaa gtgcgggttaa tgagttacac gttttaacgc 161640
acttttcogg atatTTTTtgc ttaaaaatag actgtagggc ataacaatta gtccagttaa 161700
taccgtatat aattacattt ctcatattt tatcctttt tgaaaactga ccacagcttc 161760
ggtaatgatt tttcttcctg ggcgactact gcgcaagtag ataacgcctt ctactacaa 161820
aggtaataag accagatacg ttattacatg cgcaatgtcg ttaccgaaat gaattccttt 161880
tacaaatctg ataatgatta aatttgctgt ttactttac tgtaatctt tagagtacaa 161940
cgattgcctg acgccttgtg gccatgtatg tctgacaatg aacgctttcg gttccctttc 162000
attagctaca tatcactggg tagcgcgatac tgaaatatac actacgatta aaaaaatatt 162060
tggtatctgt aacgcaaaca gatagtaacg tttaaaataa tttcacaat caatggttca 162120
ttgtacgcat aaagctaagc ggtgtaatct taaaatgccg tttaaaaata gcgataaaat 162180
aagaaggcgt atcatagcca cacatcgtcg cgacttgtga aatatttcca gcaccatac 162240
gtaataattt tatagcctga ttcatacgag catccaagta tatttttgcta aaactcacct 162300
cttcagcggc cagtttctgc ttcagacttg atacgctcat aaacagctt cctgccacct 162360
cagcctgtga ccatttgcg gtgagatcgc tgataataat gttataaact ttctcttttg 162420
ttgtaatttt tattgctcgc tcaaggaaat caaaccacc gggcttacgt acaaatgccg 162480
atataagata catcaatgag aaatatgaat aatcatgatc atcaatactc acattactac 162540
aaaccctgg acatgcgaca ccatgcaaaa tagagtcaaa agtatcactc atccctggca 162600

acaagtccgc atgaaaaaaa tacttttggtt tcgttttttaa tgatagctct cgatcattat 162660
agtttcttgt actgtaaaaa actttgtaga atttttgcat taagtcatag gaaacttcca 162720
gtgaagaaaa atcaatatgt ccttctattt cgctcatact aagcgtgatt gtttgatctt 162780
tttccaataa aaataaacac agcgcagatt gttcgatgaa ctccccaat tcgttttcaa 162840
ttcgcaaaact gcctttatta agtttaaaca ataagcagtt tgcgacataa tagtctctta 162900
cgtcagctaa tccatttatt aatggaaatt tgttcggttg ttgaaggaga ttattgctaa 162960
tggcctcaac tgatttattc attgaaggca ataccatatt ttatcctgtg tgctataagg 163020
aactcaaaat cggttatatt ttataaaca ataattaaaa ctacagaga tgattttaat 163080
ccgatttttt tattattata gccaaataatt acattccaaa gcgcgttcat ttcgtcacia 163140
aaagataccc ttacaaactt tatgcacaat tttgtaataa aagcttacia tattaatata 163200
atcctttcag aataaaacgc ctggcagata ccttaataat ccatatacat caataagata 163260
gatacactgg catggtgcat tttctgcatt atttgctgat atataacca taccttatca 163320
caaatcgcca gcaatggggg gttcaccagt caattgcctc tttgttttcc ccgcccagata 163380
aaataatctc ctgcatccag gaggtcattt gtgactgtgc attcattgta ccaactaata 163440
ccccgtttta agcctcatat aaatgggtgc ccggttcaac ttttgctaac atgttttgta 163500
gcatagccgt ttgctgctca aaagaaacaa aagccgaatc accactttta ggatctttga 163560
aggcattcat ctcttgataa atgctatctt taagcgtttc agaagaggct gactcaggaa 163620
gcgcaaaaag tcgttggtag aatgcatcat aaagatcaac gtcgcccga ttgcttaaag 163680
gcgcgctatc cacattatc agcatagcgg ccctggcact caacgaaacc acaccgtca 163740
cttcagtatc cgctgtcggg accaaataag aagtcggaat cgtaccgggt atcaccttat 163800
aacctccatt ttacaatgct tgcgtttttg tcttccattc atcaataagt gcgttaatgg 163860
cggtatcaga aatcgctcgg cagtcttgtg gaagttcatc aagatgatgc ttaatgacgc 163920
ctactgctgt ttcaacaaat tggtcaggtg aaaattctgc gatctgatcg ccgcaactca 163980
tgataaagcg ctgttcctga tgatatttaa gattaaaagt gccaggccag ttctccataa 164040
gcaacaccat cagtttttgg tgttcttttt tcgcattaac tggcagtggt aaaaaagtt 164100
gccctccgg cttatcgaaa tcccttagcc actcatccag gacggttaaa agcgtttcgg 164160
gatggtcgac cgctgctgaa aataactcgc gggcataaat ctgtattttt tccatccact 164220
tccaggccat tgtctgatta tcagtaagat aagcggcgac ctgctgtaac gcgtctatca 164280
ttccctgctc gtaaccttcc tgataggcgt acatccgcaa ggtctttgcc tcttcttccg 164340

-111-

cctctcgcaa aatacgetta gcccgttggt ggcctgctg ttctaattt tcaatagaga 164400
aataacgttc cagcgtttta cgctttatca gtatcccctc aacaggcgaa agcggggacg 164460
gaattgggat atttttgagc atattgtaag gccagtagca aaattgacat ttctacagca 164520
tcttgcttca atgcctctc aataaatgga ggaaaaagca aaggaaaacg ctgtgctaaa 164580
gattcaggta aaaattcatt cagggcattt aactgtgcat acccgacgct aagtaaaaaac 164640
ctgtgattcg ggccttatt gcaaacggat aaacttgctt cctgatgcat tgccaaaaat 164700
gcttgcgccc aatccggcag gccaaagcaag gctccctgcc ttgccagatc ggctctcagt 164760
ttatggcaac cgagtaaata cgctacttgc ggcagtgggc gccactgacg cagccacagc 164820
tgcgctcagt agttttgaat aactccttt tctcgttct taagccgcca tgcgccagt 164880
attaactcat ttgccggcg cctggcgggc ggtctgacaa tcatttccg cgctatctgc 164940
aaccgctgag gatggatata cgataacgga tcaaaaatga ttctttgcca gataatgggt 165000
aatggctgcc tattcatttg acgatttcgc cttatcatca gccgttatgc ctttcttatt 165060
gcgggcataa tggtttttgt aataccagac gccagagcct gctgacatca cggataacaa 165120
aataatcaac acaatccaac tggttgcaaa agaattacgt tttactggtg tgccgggagc 165180
ctgtaattgg gcatcagaac gttctgacaa cacaacagaa atgttgatcat aatccacatc 165240
ggcaaaaacta ttctttaaga aacgcttgat atcgctgac tgatgcgcaa gcggcggaacc 165300
tcgttcatat acggctaatt cgcacagatg aacagggtttt ggcgagcggc cttttcacc 165360
agcatcaata tcataactaa tatggacctt ggcgagagac acgccctcca tcgtctgtaa 165420
tgactgttcc agtcgctgtt caatagccga atataacctg gccttttcag ctgcgggaga 165480
cgataccagc gaatccgccg ggaacatctg cgctatttcc acccggtggc ggggaggaag 165540
ctgataagtt ttaatccagt acaccgcagc ggtaaaatca ggctcagcaa cggtaatgct 165600
atagcccaat tttccgctat caattttatt cgcctctata ttgtgcattt gcagaacggc 165660
aatgacctca ttagcctgtt cctggtccag tccttttaaa agatccttat ccttacagcc 165720
ggcaagggtc attaccagca gaaaggatata tagatatcga cgaatcatga gcgtaatagc 165780
gtttcaacag ccccgactcc ttacagagta agggacttta ccatagaaac atacaggtta 165840
taatctgaaa tcatctcttg cgaaatagcc agctcattag gatccgtcac cagattaggg 165900
tcctcaatcc tgttggtaat cgtctgttta tccacagccg tggcaatcgc cgaaccagaa 165960
aaagcctgga gtagccggtc atccagcgag acaatgtccg tttccatagg cctgatattg 166020
accgctgcc ctataacggc attctcaggg acaatagttg caatcgacat aatccacctt 166080

ataactgatt aacggaagtt ctgaataatg gcagcatcaa tatccttaaa gacttttacc 166140
gtgttcgatt gcgcgttacg gtacaagtta tattccgaga gcttactctg atacgccgcc 166200
agtagcgccg gatcggaggg ttttgctgct aatttatcca gcgcctctgt tacctgcgtt 166260
tgtagattat caacgccctt atcaaat tttt gctgaaactt catccagata gcctgaccaa 166320
gatgttggca taatgacttc cttattttgcg ttaaattaaa gtgggcttgg gaaataccaa 166380
tggcctgggc tcattttgat ataaccttc gcccgctact gaaatgagcg ccccttgagc 166440
cagtcactct ttaattcgat cgcaaactgc acatagcgtc ctccccatgt gcggtaatag 166500
ctatcgacaa attgacgggc tctgagtatt tctacatcat cgagcgcccc ctgaataaca 166560
aacgttacgc ccccttatg attcctgcgg gaataaggta acgcctgctg ttttagcccc 166620
gcttccgcct ggctgcggc ggtaacatcg tccatcaatg tgatgttaac cgaatccgcg 166680
taaggcatta gcgctctcag cttttgactt aacacctcga gctctttctt gctcatcgtg 166740
tttcgctggc ggcttagcca gaaaacgggt ttacgcggct catcgaaatg aagccgataa 166800
taagccagct gcggataata ggtatccagc caggtagaga taogcttatt ttcttcgttt 166860
tcgttaatca ctgcgcatt tttatcataa tcgcccctcg ctaaaacctg acgagccac 166920
agcgtatctc tttcattttg cgcagcgaca tagagcattt tgtcccgtcc tggcaacacc 166980
tgaaagcgct ccttctcctg cccaataac gaatcgagct ctgcggcctg ccgctgcggc 167040
gagttaagta tccataacgt cccacacgtc ccaattocca atataaaaaa cccggccagt 167100
gctgctacaa ttccgttttt aaaacgcggc tcgtttcttt ttgcagacgt ttctaacttc 167160
tcaggctgct cgggcaccca cggctcgctt tccgggcgaa tcaggataag caattcaccg 167220
acctgtattg gcgtatttaa ttgcaccgaa cgagattcag gatttccttc tttcagctca 167280
tgtagtataa tttcggtcgc atccgtatcc acctggattt caaaatttac tccgccatgg 167340
tcagcgggga taaaaaagct atcggcaggt atatcaggga gttggcctga agcagtgagc 167400
gcatcactct gacctaccac aaagagtgtt cggcctgtca gcaatggaaa ctcacagccg 167460
ttcagtgagc tgtaagtaa tcgaactatg tatggccctg ggcttggtat cgtcttctct 167520
tttgatgttt ccatatatac tgtttagcgt atctgtcgtt ctcgatagca gcagattacc 167580
gcacaggaca cagggtatcc tgatgaaaat agaataaaaa gtgagaaata aaatcaattt 167640
attctgtata atgcgtctca acacatatta aaagaaccat catccccatt ggggcttaaa 167700
ctactgtaga taaattaccc aaatttgggt tcttttggtg taacaatcag accattgcca 167760
acacacgcta ataaagagca tttacaactc agattttttc agtaggatac cagtaaggaa 167820

cattaaaata acatcaacaa agggataata tggaaaatgt aacctttgta agtaatagtc 167880
atcagcgtcc tgccgcagat aacttacaga aattaaaatc acttttgaca aatacccagc 167940
agcaaattaa aagtcagact cagcagggtta ccatcaaaaa tctttatgta agcagtttca 168000
ctttagtttg ctttcggagc ggtaaactga cgattagcaa taatcacgat acgatttact 168060
gtgacgaacc tgggatgttg gtgctcaaaa aagagcaggt agttaacgtg acgcttgaag 168120
aggatcaatgg ccacatggat ttcgatatac tcgagatacc gacgcaacga cttggcgctc 168180
tctatgcact tatcccaaac gagcagcaaa ccaaaatggc ggtaccaca gagaaagcgc 168240
agaaaatctt ctatacacct gacttttctg ccagaagaga ggtatttgaa catctgaaaa 168300
cggcgttctc ctgtacgaag gatacaagca aagggtgcag taattgtaac aacaaaagtt 168360
gtattgaaaa tgaagagtta attccttatt ttctgctgtt cctgcttact gcttttctcc 168420
gactccctga gagttatgag atcatcctta gctcggctca gataacgtta aagaagcgcg 168480
tttacaacat tatatcttcg tcaccagta gacagtggaa gcttacggat gttgccgac 168540
atatatttat gagtacgtca acgctcaaac ggaaacttgc agaagaaggt accagcttta 168600
gcgatatcta cttatcggca agaatagaatc aggcagcaaa acttttacgc ataggcaacc 168660
ataatgttaa tgctgtagca ttaaaatgtg gttatgacag cacgtctac ttcatcatt 168720
gtttcaaaaa atattttaaa actacgccat cgacattcat aaaaatggcg aaccattaac 168780
atttttgtat cagtcactca agtaaagatt tttattaaaa ttttaataat ttaaaattca 168840
gaccgtgcat taacacgcta tatcaggatg ggaggctatt caacatcatt gttctgtccg 168900
gaagacagct tatactgata tctctggtaa tttaaagtaa ggctgattat ataacacgat 168960
ttttgtgaac ttgtcatgc tatgatgact ggtaaaccga tattgcctta ttcacagcgt 169020
aagaatccgt ccagatgaca ctatctcctt ccggctttta cctatggat taaggccggc 169080
attttattca tatttataca tcatccgttc cctctgagaa ctatttgcct gaacggtcta 169140
caccgaaaca gtcacgcttg ttagctttct gccaggcata catcttctct tcatcctgat 169200
atcgatataa tgcttggggg ccagcttgag gatgatactg ctcataaacc cctgcctttt 169260
tgacgctata gctgaaggag taaagaaaag acgatatcat tattttgcaa aaaaatataa 169320
aaataagcgc accattaaaa acagtcttgc atttatattt tggcacctaa gacaaattac 169380
actcttaaac tttcaacgaa tggtcattta gtggaaatct tcgagaaaaa tggttctgat 169440
ggtgtaatta tcagaccatt aaccatgaag atataataag cagcatttac acccccaaaa 169500
aatgcagtaa gatagctaca aaactaatct ctattgcaat gagaccaagt taaatatgta 169560

-114-

aatattttaga tgcccggcgc tgactctcgg caccaggata tacgacagcg tccattcgac 169620
aatcacggtt agttataaca atatcattac caacatgtca gttattttaa gcacaggcat 169680
aagctaaata atcaaagtgt aaaaacatat aaacccgagc ccgtacaata tgacattaag 169740
ctcataataa aagctcaacc tgaccggttag tactagcagc agaattactg aaacagtaga 169800
ttctatccta acgacttgta ttagctatta taacttttca ccctgtaaga gaatacacta 169860
ttatcatgcc acattttaat cctgttcctg tatcgaataa aaaattcgtc tttgatgatt 169920
tcatactcaa catggacggc tccttgctac gctcagaaaa gaaagtcaat attccgcaa 169980
aagaatatgc cgttctggtc atcctgctcg aagccgccgg caagattgtg agtaaaaaca 170040
ccttattgga ccaagtatgg ggcgacggc aagttaacga agaattctct acccgctgta 170100
tctatgcctt acgacgtatt ctgtcggaag ataaagagca tcgttacatt gaaacactgt 170160
acggacaggg ttatcggttt aatcgtccgg tcgtagtggt gtctccgcca gcgccgaac 170220
ctacgactca tacattggcg atacttcctt ttcagatgca ggatcagggt caatccgaga 170280
gtctgcatta ctctatcgtg aagggtatg cgcagtatgc gccctttggc ctgagcgtgc 170340
tgccggtgac cattacgaag aactgccgca gtgttaagga tattcttgag ctcatggatc 170400
aattacgccc cgattattat atctccgggc agatgatacc cgatggtaat gataatattg 170460
tacagatcga gatagttcgg gttaaagggt atcacctgct gcaccaggaa agcattaagt 170520
tgatagaaca ccaaccgct tctctcttgc aaaacaaaat tgccaatctt ttgctcagat 170580
gtattcccgg acttcgctgg gacacaaagc aaattagcga gctaaattcg attgacagta 170640
ccatggtcta cttacgggt aagcatgagt taaatcaata caccocctat agcttacagc 170700
aagcgcttaa attgctgact caatgcgtta atatgtcgcc aaacagcatt gcgccttact 170760
gtgcgctggc agaatgctac ct cagcatgg cgcaaatggg gatTTTTgat aaacaaaacg 170820
caatgatcaa agctaaagaa catgcgatta aggcgacaga gctggaccac aataatccac 170880
aagctttagg attactgggg ctaattaata cgattcactc agaatacatc gtcgggagtt 170940
tgctattcaa acaagctaac ttactttcgc ccatttctgc agatattaaa tattattatg 171000
gctggaatct tttcatggct ggtcagttgg aggaggcctt acaaacgatt aacgagtgtt 171060
taaaattgga cccaacgcgc gcagccgcag ggatcactaa gctgtggatt acctattatc 171120
ataccggtat tgatgatgct atacgttttag gcgatgaatt acgctcacia cacctgcagg 171180
ataatccaat attattaagt atgcaggtta tgtttctttc gcttaaagggt aaacatgaac 171240
tggcacgaaa attactaaa gaaatatcca cgcaggaaat aacaggactt attgctgtta 171300

-115-

atcttcttta cgctgaatat tgtcagaata gtgagcgtgc cttaccgacg ataagagaat 171360
ttctggaaag tgaacagcgt atagataata atccgggatt attaccgtta gtgctggttg 171420
cccacggcga agctattgcc gagaaaatgt ggaataaatt taaaaacgaa gacaatattt 171480
ggttcaaaag atggaaacag gatccccgct tgattaaatt acggtaaaat ctgagagagg 171540
agatatgcat ttttttttta tcatcgtaat ctggttgctt agcataaata cggcatgggc 171600
tgattgctgg cttcaggctg aaaaaatgtt caatattgaa tccgaactac tttacgctat 171660
cgcccagcag gaatcggcga tgaaacctgg cgccattggt cataaccgag atggttcaac 171720
cgatcttggc ctgatgcaaa ttaacagctt ccatatgaaa aggctgaaaa aaatggggat 171780
tagtgaaaaa cagttgttac aggatccctg cttttctgtc attgtgggcg catccatttt 171840
atcagatatg atgaaaatct acggttttag ctgggaggcc gttggcgctt ataatgccgg 171900
gacgtcgccg aaacgatcgg atataaggaa acgttatgct aaaaaaattt gggagaatta 171960
cagaaaatta aaagagatgt cagcagaaga gaaaaacaaa agactttcta tcgcggtaaa 172020
caaataatta tacaggaata gcttacttct agataattct aaaagtaagc tatgttttta 172080
tcagcttgcc gtctgcataa gcaactgggc ttgcattgct tttagttgta caaactgtga 172140
ggcgtcttcc agcattctat tgttccgtga attccggaaa tctgcacgta cctgctccag 172200
attactatga ggattatcct taagtacaag agccgcgcgc atcgttccgg ttcttcccac 172260
tccgcccaga caatgaatca tcggtaaatg cttatctgat gaactacgcc ccggcgcgcc 172320
attttggtta ctatttttca cctatccgc caggtattct aactgatcag tagacggtaa 172380
cggctggtga tctggccaat tttcacatg caataccggg attgtatacc gcttttcccc 172440
gcaggacagt tgcatattgt attggtctat cgctcctccc tgactggctg agctcacttt 172500
ttggctggtg gtatgcacct cgccaaagggt gtagctccct ctgaaatagg ctggtaattg 172560
ttttgcctgc atctgatctt ccgaogttaa caccaccagg cacgaacatt ctttttcaag 172620
aagcattttc atatgogctt ccagcgcatc cggcgtattt tttgggcacg aaccggctaa 172680
tgccacaggc ttacgtcaa aagttaacgt attcactggc acaggcattc catcgctcag 172740
tttcacctgg gtttctgat taatgggaat gctgctgacc gcaaaccgtg ccaggcccag 172800
tgtcgggtccg ctcatcgtct gtggcattga cgcaccggct tttattttct caagttcagc 172860
tgtaacgttt ttcagttctt tagcaataac gtgaattttt tttaccgctt gggttaattc 172920
atgagtagag gctttatcaa tcacctctc aacctctccc ccacaggttc cccattgtga 172980
gaacctgtct gctcctatct gaatatTTTT taacgttgta acataatcat taagttgttt 173040

-116-

agcctctgga attttattta aactctgtaa attcgtcatt aatgaacgca gcggggccgtt 173100
acctgaagcc atctcctgga agttttctcg caggctatth ccatccatth gttccagttg 173160
cggatttggt ctcttaagtc ccttttagcgc gatatcgagt aaagggttgct tactttctgc 173220
accaacatcg ttatttttgt ctgtcactth tgtatcgccg ctttttatga ctaaagcggc 173280
attcatgaca ccaacattat ccttgttctt aataagatth ataaaccctc cgtcagcacc 173340
ttttacacac tccgtgatct gcactactaa acgttgggta aggggtttgt tcatatttat 173400
actggacatg tacaaagcat tattgaccgc tttttccca ttttttccg ttaatgcctg 173460
gagaaatgtc tgtaaaatct tttggttctg tactctgata ttttccgtgt gtttttgac 173520
cacttcagt tttttaaata agggcatth tccaagccag gttaatactt ttgacgaaaa 173580
tttttcaggc gcaacatatg ccttatcagt attttctta gcaatatata gccgggtatc 173640
actcgacacg ccagattttg aaaatgaaga caatgttaa ttattcaact tctctctatc 173700
ataccttagc atattcctgt agtatgtttt tgagcgcttc ctgcttattc acaaatgact 173760
caagctgcga tatgatatga taaatatthtgc tcagatcggt aattgcatgt ataaacaaca 173820
acgtctctgc ggcatcaata tacgctaacg taccttcatt attcgagcc agttcaccat 173880
taatcaccat aatctgccgc cagatagaat cgccacaaac aggcgatagc ggtataatca 173940
taccgttcaa taaccagata tcatcttttag cttcaataga cgtaaaaata tcgctatcga 174000
gtagtaataa gcactgattg ttgtcatcaa aagtgcggc taaacccaat ttctcaccaa 174060
tattagcgat aatatcctgg tgtgcttgca atttactttc ctctttaatt atatctttta 174120
caagattgct tcttcaaatt taatctggtt acacaatgtc ttgatatttt ttgcgcacca 174180
tcgccgagcg caatatttct ctcttttaatt ccagtagaat agccattcac tacgcacgg 174240
aacacaaatc agcagttcct tcggatcatt ttcaacatga cgtaacttgc ctttaataac 174300
aaaacgcgaa ctgtcagcaa tatcatcata tattgcagcc atgcctgaac cgggtactac 174360
atgtgtgatg atttcataa caattaatct tgttcaattg ttgtcgagcg agagaaaaat 174420
actacaccct ggactcaaga ctttttttaa caacacggca tatatccgca aaggctcgtca 174480
tatcaggaag atcgttttca ttacaactaa tgtcaaactc ctactaaga ccaaatacaa 174540
tatcaattaa atccaatgag tcagcgtaaa gatcctcaac cagatgggtc tgaccattga 174600
tactatcaac atcaacggca atacaggagg tgatcacttt tttgactctt gtttcaatat 174660
ccatattcat cgcactttc ccagttaatt aacgctgcat gtgcaagcca tcaacggtag 174720
taataaccgc atccacacca ggtttattca ggtatgactc gtaagccggg ccagctcgcc 174780

-117-

agctaccgtc tccgataagg ccgtccagca cat t acttaa cacatagtca gtttcccoctt 174840
tttgccctggt caaccccgcc tctctggcaa act gcaatgc aatctcagcc agtttttctt 174900
tttgtggatg atgagtaatg acctctttga gcgtctccat tttcgctttc aattctgggt 174960
gcttgtcaat atcgctacat tgcgctttca acgctgcact ctttatcgtg tcattgggta 175020
atatttcccc acgcaagccg tcaaacgctc tgcgtacagg aaacgggtgta gaggcatccg 175080
gctccagggc tttacgtatc acacccaaaa acgcctcacg ggcggtgaaa tgtattgaat 175140
gcatattcgt aacgctcgggt actgttgaga ggaaactatt ttgcttaaac ttcaaaccag 175200
aaaatgggccc agtcttatct gtctggctat tat cattatc ggctgtaccg gctttattac 175260
ctgtaattac cgtcgagtct gattgtaagg tatcgatttt aacattctcg acgccagcca 175320
gttgactggc aagcggcttc acattcacia tctctgccgt ctggctttgc tgtttattat 175380
catcaacgcc gtgcaccgtg gcctgtaacg gcttgccgat aatgctcttg ctggttacgc 175440
catcgacttc atcaaaagag gttgtttcac ccgtagtgcc cttttctgac gtgaccacct 175500
ttccatcttt actttcggat gaagagttgg tcacagcctc tgccgtcgca tgagccgtga 175560
cgtcaatttt acccgcgatg ccatgggtcaa ttgtccctgt gctggcgctg tgtgcggtct 175620
ccgtttgatg cgtagtcgaa tccacacgcg aatgactatg acttacgttg ctgctgtag 175680
tcgaatggtg tgactcgcca tggcgttggc tgttatcaat aaatgttcgg ctattatcaa 175740
tcgtcttccg gctattatca tggttgctat tatcgatatg gcgctggcta ttatcgacat 175800
ggcttcggct attgttaata tgcttactgt tatccacgct atggttactg ctatcaatat 175860
taatattgat attaataccc gtaggttctg cttttttccc accatcaggt actggtccag 175920
ccgcaggttc cggaatttta gggtcaggca gtttatctgc aggaatttgt gcaaaaacat 175980
tacgtagcag caggggtatc aacgtttgca tttcaagggt ccgggcttcc cgtcctacgc 176040
tggtaccctg ctcttgcggt aatttttggt ggacacatc aagcgcctca accgccttcg 176100
ccgcgcgttt gtcaacaagc tgcgtaagac tgcgtcgggt taacggatct aacgtacagc 176160
caaagttatg ttcaatgcag ctggcaatat agggcatcac ctctgcata acaagattcg 176220
tcgataaatt acttaattca ccgccagtgt tatttttgat gatattctaac agctgctttt 176280
ccagggtttc cagcttcgct tccgctttct ttgtttctgg cagccatggc caaaagctg 176340
acttttcttt caggccatct tttatgattt gcgcggtata ctctgcccc accttcatca 176400
gtagcgtctt cgcctcagga gaatcactgg tggcggtgag cgctgaacga aagaggccgg 176460
caaactccat tatcgctttc ttaccggcga cattatttga attggtaaaa acttctttta 176520

-118-

acgcctcggc gtctttcccg catttaaaca acgcatccag actcgcctgt ttgatcagcg 176580
cgggaaaatc ttccagttgc tggcctttta tttcccctga cagcgttgct gtggcacttt 176640
ctctgaccgc ggaaagattc gccgcaagat tcgtggcctg cgttttgatc tcggtctgca 176700
tacctggcat tatgacgggg ggctgagttc ttacacttgt aaccattatt aatatcctct 176760
tctgttatcc ttgcaggaag cttttggcgg tttccaggct gctacttate gtactgctca 176820
gcacttttac caggttgctg tacaatgaat tggcattgct atatttttgc gtcagcgtct 176880
gtaatgtggg tttcagattt tcttctctgt ctttaaaacc cgactgccag gcttgatatt 176940
tggcgttatc cagttcaagg gctgaacccg atcctattcc attaagatcg ctaaccattt 177000
tgctcagtgg ccccgatatc accagtacga cataaccaga accagacgcc tttagacagc 177060
tgtccggtaa attcaattct ttaatccact gctcagcttc cgctttcgtt gctggtgtca 177120
ttccgctgcc agtttgcgag ggaaataaaa tcgtattttt atttatttga gtgtatttat 177180
taattaaact acttatttca cttttaagtg agtcaacatt tagcttaatg gtatttccat 177240
ccttaccagg cgataaccag cctcccattt tggaaagaat atcactgaag gctgataaa 177300
aatcggtata gactgagaca acgttttcat aaacgcccag gtagctgtca cctatcgccg 177360
atatattttg ggaaaccata tcccaaattc cagcatcaga aatggttggt ctcggtgctg 177420
ccataggcga agcgctaaat aaggccgacg tcggcgagca aaacgtgctc cgcaggttct 177480
cattttgttc tgcggataat gacacgccgg acttcgccag cgcattcagg ctgctgggtca 177540
actgttgccg cgccagcgtg cgctcgatc tattctcttc agaaatcggg ggcgttgact 177600
gcagcgtctg ctgtgcctgc tggatttttag tagccgcctg cgataatgaa atgatatctg 177660
tgccgcgatg ttctgtggta gacggtacca cggcaatctc ggcgtgctcg ctcgccgaag 177720
gagtctgcgg ccgttcggca acgatccccg gatgaggaga agcggaataa ttttgaatat 177780
taagcataat atccccagtt cgccatcagg agggcgatta aatccccccc tgatggcgta 177840
tagttgatct gtcagattaa ggcgaatat tgcctgcgat agcagcgagt gcggatgctt 177900
tcgactgggt aatgctctcc attgttttca gcatttctctg aatcaggctg gtcgatttac 177960
gtgaactttc acgggcttcg tccgatgcgg tgctggcaac ccggttatc acctggctaa 178020
tttgctgctc ggaacgttcc tgagtagcgg cgtactgctt ggacgcccct gcaataccac 178080
cgaccgtgac tgagttcttc ataatacagat cgcccgatc ctgcatcttg cgcgcatcga 178140
ttcgggtcat atccatggta ttctgctcaa gacgaatata ggattcgaca gactcaagac 178200
gtttcgacag aatagcctga tgttcagggg agatttggtt attactgttt ttaataacca 178260

gactttccgt ggcgctggtt ccggcattag atttaagcgt cgcatacatta agatttttcg 178320
tcgcacgggt accggttttc ttcataattta acgatttcag agaatcgacg ccttcagcac 178380
caagtttgac gctattctgc ccgttcagca cgtttttaat actgtggctt tcagtgggtca 178440
gtttatogat cttcgcgga ttatgtttaa gcgcgcctct ttcattctgc agccccttat 178500
attccagttt ggcgcccacg ccagtgatcc ccaactgaag cgcgctctgg gaaatactac 178560
cggacaacgc attcatccct tcgcgcacatc tggagcttgc cgtcgtttta gctgcatcaa 178620
aactgactaa tgacaactta ccagacagtt tgctatcagc ctggttcaac gtcagcatta 178680
acgtattcgc ggcagccaac agcgcaacgg cactggaaga cattccgcta atatcaaaaa 178740
actttccgac ttctgcctgc tgctcgcgta actgggtttg cacaacctca ttcgcttttag 178800
tcgtgacatt atttgccagg gcattcaaat cctgattcat gtcggtatth tgaatactgg 178860
cttttaaaaa ggacgtgatc gttccggggg tttgcgttaa taccctggc gcaggcgcgc 178920
tcagtgtagg actcaacccc aggtcactga ctttactgct gctaatacca atactattca 178980
gaatatcttt agcgctaacg gattgcgaag ctgtctgtga actattctca acagaatgat 179040
tatttaaata agcggcgga tttattccca cattactaat taacataattt ttctcccttt 179100
atthtggcag tttttatgcy cgactctggc gcagaataaa acgcgaagca tccgcattth 179160
gctgtaccgc agaagacatg gctttttgca gttccgccgt taccttctgg ttttcaccaa 179220
atatttctac ggattgttta agccactgct gaatctgatc catggcaaaa cgggcgagca 179280
taaaatcagc aagcgccctc ctggcattth taataaatac cccctcggca accccaccgg 179340
ctgactgggc tcgggtattc gtgacttcca tgcccaacgc cactttattt agggatttac 179400
ctaccagctc tttacttaag gcattcgtth gcaggcccat ctgtctaccc acattaccca 179460
ggccgctagt aatacgttgc atcccctggg taaagagtht gctgcgtht tgtgccaact 179520
gtttcagcac gttaggcacc aacttcttaa tcgtttcgcc catcatttht ctcagcgcgt 179580
taccagtht cgcgcgcgcg cttttccga caactgcgac caccacaatg accgctacca 179640
tggaatagc ggcgacaatc gcaccaacaa tgctgcctgc catctctgcc gttttcttat 179700
cgacgcctaa tccttcagc gctttggtaa tcgccttgcc aatcagctcc attaacggct 179760
tcagcacatg ctccataatc gggtttagc cctgctgaat aaacgacacc cccgtcgcgc 179820
ccttcacaat ttcacggcc accattaccg caagtccac cgcagccagc gccagactcy 179880
ccccaccggt aaaaacagcy gccacaacgc tgacaatggt tagcagcgcg ccgaggactt 179940
tcccgatata tcccataatg cggttcgtth cctcggctth gcgcgtctct tcctggaatt 180000

cagccgattt cttttccatc tccgcctgac gcccttcctg caaggcggtg aaaagcgcaa 180060
gatcgttttg caggctttct tccgtatttt tgcccacaat ctcaataaac atggccatga 180120
gcatagttag gcgggcgaca ttgacagat taccctgctc accctgggaa acctgattct 180180
gagaggcggc attagccgtt ccttggaatt tggtcagaat gttatccgct ttctcggtt 180240
tcgctttggc gtctgtgcct gctttaaccg tcgcatccgt ggccttatct aaggcctctt 180300
tcgcctctgt cgcttctttt cgggcctgtt ctaccgcggc ttcagcttgt gcatagccgg 180360
ggtcagctgg gtccagcgat tgcaatttat ttgcgccctg cgtcagtttt ttggccgcag 180420
cgtcataaac actcttggcg gtatccgtct tttgatgct ggcttcatag agatccgtcg 180480
cctcctgagc ctctcccaga gccgtctgga attctttcga tacctgaatc cccatctctt 180540
tttgtgactc aatcatcgcc tgccataacc ccagacgaga ctccagttga gacagcgaaa 180600
catcgcccag tagtgtcatt aacttgccaa gcagtaatgt caattgcctt tcgctggaga 180660
gtttttcccg ggcgcgctcc gtaggcggct ttagaccac cgatttaata gcgctctcg 180720
cggactttgt tccggcttta aggtcgcccg ctttcgttgc caccacatct ttaaaagctt 180780
tatccgcgcg ttttaaaaag tccgtgttct tacgaacgcc ttcaaaagcc gcctcagcga 180840
ggcgcggtt ttgggtatat ccgctaaggc taatgctact tgcgtcattt accataatta 180900
ttccttttct tgttcactgt gctgctctgt ctccgcggt tttagcgct ccagatagac 180960
caacgctttt gccgcgagag actcatcttc agtaagtcca ttgacaagtt caaaacactg 181020
tctggctttt gccgccttac gcattaataa ttgacactgc ccggtaaaaa aaacggggcg 181080
ataatcattt ttaagtaacg taaacgctac tgcataaagg tcacatgctt tctgaaattg 181140
ttttttcagt tggcataccg ccgccagtcc catgggtgaa tcgggattgt aaaaatcata 181200
aatgcataag aaacgaaaga atgtctcagc ttcattcagt cgcccttgt tataaaactc 181260
ataagcatga gcatataaac cgtccatcat atcttgaggg atcccgtgaa cgtcttttag 181320
cgtggcgct tcaactaacg catcccaaatt catctccgca acacgttctt cgctgacatt 181380
attttgataa tccattactt actcctgtta tctgtcacgc actttgtaga acttaacgac 181440
tgcgtttatc tgatgcagtt attaaacccc gacgggtggt agtgaacatt caaaaaactc 181500
ccaatgaata catcgctact gctttacgcg gctcaatgcc gtacctcgtt ttcttgtggc 181560
tgaataacgt ctttgccgcg gttttctacc tcttcagcc aaaccagaag acgtaaaact 181620
tcatcaattt cttccagact caccagatca taacggcgat gggttttgaa aagactgcgc 181680
gccagtttga tctcgacgat cacaggtacg ccaaccttct ccgcataggc gcggacggcc 181740

agtgcgcgct gattcggttc atacaccgag atcatcggaa tcggcatcaa ttcgggttta 181800
aaataaatcc cgatcgtaat atgcgtgggg ttggcaacaa tcaggcgtga gttttcaata 181860
tcggatttca cctgttcaga cagaatttcc atatgaactt cacgtctttt agatttaacc 181920
tctgggttcc ctctctgctc cttcatttca cgcttcactt ctctcttctc ctttttcata 181980
tctttcatgg tcaggaaata ttccgcaata gcatccaata ataagacaat caatgcgcaa 182040
gcaaggcaag ttaataccaa tgcgaggaga agttcacgcc aaatgacggc aatatccaca 182100
acattgccat ttaactgaga aaagatttca accttatatt tcttcagca aatgatggcg 182160
gccaccacaa aggatgagag atacagtagg gttttgaccg tatctttaac cgtgcgcata 182220
ctaaaaagtt ttttcgcccc ttctaccggg tttaacgccg ataaattagg ttttaatgct 182280
tctgtcgcca gcacgaaacc ggctgtaat aacgcggta atgcggaaca cactaaacag 182340
agcagcataa atggaatcag atattttaat cctatcccaa aaacggccaa actgtaatca 182400
gccatgctct gatcaaaatt atccgcaata atgatcttaa ttatcccat aaactcatta 182460
aatgagccat acgacaccag ataggcaatt cctcccagcg tcagacaggc gataatgaga 182520
tctttacttt taaatgactg gcctttttta gcggagtctt ccagccgttt tttagtcggt 182580
ttttctgttt tattcgagga catgcgtcgc ccctcgctcg taaaaccaac tgcttaacct 182640
tgtggcctgg aaagagagtc gcggtacatt gtccggtagt accggagaga aataaagcag 182700
cataattaaa acggcaatgc cgctttttac cgtcagtgaa atcgcaaaag cgttcatttg 182760
cggagcaaag cgcgacaata aaccaggaa tacttctgac agcaacagca ctaataccac 182820
cggactggcc agaaccaagg cgttttgagc cacctgatta ataaacgtta atagcggcgg 182880
taatgaaggc gtgcactcgt tcatcggatc gcatagctga tagcttttat ttaacacgtc 182940
aaccatcgtg accagaccgc cgttttgtaa ataaacgaca gcggcaaaca tattcaggaa 183000
attagccatt tccgaggtat caataccgtt tgccggatcg atactgctac ttagcgttgc 183060
ccctcgctgg ttatcgataa tacaaccag cgcatgcata acccaaaaag gccatgacag 183120
cagacagccc agcatgaocg ctaccgcgc ttcttgacga actaacggga tcatcgccac 183180
cgataaaaac ggcggcgcct cgttcaatgc atgcggccat actcccaatg ccaccaggat 183240
gataatggcg tttctcggcg cgccgcttaa taccocgcta ttcaaaaacg gcaggaagaa 183300
aaaaatcggc gctacgcgag caaacctag tgccgcagac gcaaccaggt gatgaatttc 183360
aaagtacaac gcgtaaagca ttttttacct cttagccaac gccaggaata tcacctgacg 183420
cccgtagag agtaaaactt cgccatacca gccagacagt aaaaacaagc ataaacacac 183480

-122-

gccaaagtaat ttaatgccaa aaggcagcgt ctgttcctgt aattgcgtta ccgtctggaa 183540
taaccctacc aggaggccga taatcgttgc gacaatcgtc ggccaccctg acaggatcaa 183600
aacaagatag agcgccttat tacctgcaaa cactaaatca tccatttaac tatcccgtct 183660
cgtaatgatg tcatgttgca atgtccatat actgtaatat caatccctta gacagtaagg 183720
tccagccatc aagcgcgaca aaaagcacca gcttaatagg thtagatata gtcaccggac 183780
tcatcatcat catccccagc gccagtagca cgctggatac caccaggtcg acgacaacaa 183840
agggcaaata gagataaaaa ccaattttta acgcgctttt tatttcgctc agcgcataag 183900
caggtaataa cgcaaatatt gatgggtttt caatttcac cttgtcacgc tttaccgtct 183960
cggctctcttcc tccatactga cgcttcagtt gcgcgttttc aaaaaactga actaactcgc 184020
gatctgaata tttgatcaga taatcgcgat aaccatccag accttcatca acgtgtttac 184080
ttaatgacga aatatcatta aaggtgacat ctctgcctc aaaatagacg taggcatcat 184140
gcattattgg ccacataaca aacatagaaa gcagcaatgc gacgctgtta agcgtcatat 184200
ttgaagggtat ctgctgcaat ccagggcgt tacgcacat gacaaataca atagaaaatt 184260
taacgaaaca gggttcctgac gcaataataa atggcaacag ggtggaaaat gccagtaagg 184320
caattaatga gatatcattc ccattacca gactcgtcga gccattcatg gatctcaacg 184380
cctaagggtgt cattcatctg taccagttcg ccattaccaa gcaaacacc attcgccata 184440
atttcaacgt taagttcaac attggtcggc agtgataata gctgttgctg ccccatggct 184500
tcgagttcgg cgagggtaac gttcttacga taaaaacaa attccagttt gacgggcaat 184560
tgattcaagc caggcagagt ttctgcagtt tcagttgtat tttttcttc ttcgatatgt 184620
tgaatatcta acgtttccac aataattccc cttcaaca c ggttgaaatg acctaacttt 184680
ttcgcgtagc aataaacttc cgcacgggaa gtacgaatca ggagtacatc tccgatcccg 184740
attcgcccca gcaagaacg ctgcgtatca ctgctaccga ttacaaagcg caacggccaa 184800
cgcagcatth tcggcctgcc gccccgact gcaggcagtt caggaagatg ctcaaaccac 184860
aggccgcccc gatcgtcat aatgtgcaac aatttccctt ccggcagcgc gtttcccggt 184920
acgggggttct ctacgcataa acgcgcagc gacaaatgc gcacgggcaa ctcaaacggt 184980
cgctctgttg cagcaagcca gggaaacgacc aggtgctcag caccggcaga aaccgcccgc 185040
cccgcagag cgggagagac atgctcaagc cagccccag gtttaatcca ggccgaccac 185100
cgtttttctg catcgtcaa ccgaaccac attccctgtc gcgtcggata ttccagcgtc 185160
gcttcccggc catggcgtg gcattctgtc gcggtttgcg ccaatagcca ttcgcgacga 185220

tcaatctgtc tcacacgcaa tgacatcagg cgtcatcctc ctcgccagat tgctgtctgt 185280
gctgttgctg ctgcggattt tgttgatcgt ctgcgctcag gtgccagcgc tggggattac 185340
cgttttgcca ttgatcatgc aaacgatggt caacctgcgt atttgacggt attaacgaaa 185400
actcccctgc ttgccgcgcc tgaatattga cggaatagtc atttccccag cgctgaaaac 185460
ggtaagtcag cgagctatcc tctcctttca cgccatcggc agtgggaaaa atagtcatca 185520
tcggctttga ttgcgccgt aaaggcattt tttcatcgcc gccggttaat tggctaagat 185580
cggcgatagt ggttggttgc agcggaaagct gagaaacatc tttaaccttt ttatgatctt 185640
tatcgtcagg cttaccggta ttggctgcgg ccattcgggc aggtgcgaca tcccgcgcca 185700
gcggcgcgcc ctctttacga acgccttcgc ccgcgatggc tttattatcc ccaggcaatg 185760
ccttgatatt atcgtcagag attcccggtg cattatcgggt tacttacta acggattcca 185820
cggttttta atcagcagat aattttttac cgcttacgct ttctaacggc ctatttttag 185880
gcgatagcaa cgctgcggat ttatctactt tggcctcgc agaaatcaaa ccgacagatt 185940
tttcagcagt gactttcaac agtttttcag caatcctgag ttgcgctttt ccgttatgat 186000
gcagaccaga aacgttgcca ttgtgatgtt ctgatttcgc tggcgcgcaa tgctgccatg 186060
ccgccagtaa taccggtaaa gccgtttctt tatgcattac gaaagcatcg ccatagtcgc 186120
gatctttttt atcaccggaa tattctgtct tatgtttttc caccgttttt tttaatgctt 186180
ctgataaacc gccaacctca tctgtctgcg gcagtaaaat gttcccggtat gaactgacag 186240
ctgacacatc gccattaaa ttatctctc tgactcggcc tcttcctgct gtatctctcg 186300
ctggatatag tgtcttttct gacgaattat ccagcgttga tagttccctt ctttgcgcaa 186360
ccaatattta ctttttttct gaaactcttc cttttcttt tccagctcgc tccgtttttc 186420
ctgaatttgt ataacttgga gttctaaatc ttttatctgc cggcgaacaa tagactgctt 186480
acgtaataac gtataaattt cctcacgact gagctgtctg ttttctgcac gcagcgtatc 186540
taataacaat ttcagaccg ctatttggtt aaggatcgcc tctcctcgg cctgcagccc 186600
gcggtcctca tctgatagc gaagtaatat tgactcacac tgtgaatgaa ataccgtaca 186660
gcgccgctgt aaaactttta ttctggtcag cgaatgcatt cataccgctc aacgtgtcat 186720
caaaggatga atattgcgt accggctggc ataaccaggc tttcaggcta tccgcatct 186780
gcatcgcccg atcgttatcg atattttcgc caggacgata ttctcccaag tcaatgaaaa 186840
gctggagctc ttccagacgc gtcattaatt tacgcacggc agatgcctgt tcagcatgtg 186900
tcggcgctgt gacttgtcca aaaacggggc ttacgtttt cagtacatcg attgccgggt 186960

aatgtccctg cccggccagc tttctgctca gatacagggtg accgtcaagg atagagcgaa 187020
tttcatccgc catcgggtcc gcctcttctc cgctttccag cagtaccgta taaaaggcag 187080
taatgcttcc ctgctgggtc gccccggggc gttccagcaa gcggggcaaa ttatcgaata 187140
cggaggcggg ataacctcga cggggccggac gctctcccga cgccagtgcc acatctcgca 187200
aagcacgcgc ataacgggtc atggaatcga taaaaagcac gacccgtttt ccttgggtgc 187260
gaaaaatattc cgctacgggt gtgcccagtt gcgcgcatt gcagcgatcg accgagggga 187320
aatcggaagt ggcaaaaacc agcacgcatt tttctttctt atgcgaagcg cgcaacatat 187380
ccacgaattc agtgacctca cggcctcggt caccgataag accgataaca aagacatccg 187440
cctccgtttg ctgatcagc atatgcatca gcatgggtct accgcatcct gcggaggcaa 187500
aaatgcccat tcgctggcct acgccacagg tcaataacct gtcaatcgcg cgcacaccgg 187560
taatcagcgg ttcacggacg ccaacgcgcg aagcgtaaga cggcgggtgcg acatcaataa 187620
cgcgttcttc gctaatcggc gccacttcag gggtaaaacg ctcaacgatt ttccctgtcg 187680
gatccaacac cgcgcctaact actgagtatc ccaccacgc cgataacgca cgtccagtgg 187740
gataaagcac gacatcgcgg ctgagcccct gggcattgcc gataaggctc agcacgggtgc 187800
gttcccgtcg taagccaacc acctgcgcac gtgcaacaac ctgtttttgg tgccagccac 187860
ggcgtatttc acacagttcg ccaatggcca catcgcgcaa ttccgcctca ataattgggc 187920
cggttatttt ttgtgggtag gccagatatt gcagtaaacg aggtgttttc atctcattag 187980
cgaccgacta aaaacttcca gatagtgtga aaaccattc aaggcagtag agaacttttc 188040
accgtcagat aaaaaatccg gatgcactaa ggctttaagc gttagctccc cattctgctc 188100
ccccagtagt aattgcccgc cgcgggcaaa atggcatcct tcattatgg tcattaagat 188160
ttcataagcc cgctgttgta ataccacat gctgtcagca cccaattgcg ccagatcca 188220
tacatcatcg tccttgacgc tgatacagat acttggcaat gcaaataaat ccagaacaat 188280
tggtgaatgg ctatctattc ctccaattaa tgaaggatcg caaccactta cttccagtgc 188340
ggaacgaact aattcagcga tatccaaatg ttgcatagat cttttcctta attaagccct 188400
tatattgttt ttataacatt cactgacttg ctatctgcta tctaccgaa agataaaaacc 188460
tcagatccg gaaaacgacc ttcaatcatt ttcttaataa atcgacggac atcgacagac 188520
gtaaggagga caagatcttt atgtgcaatc aataaatcat ccaacttaag tgtaatgaga 188580
tccatcaaata tagcggaggc ttccgggtca aggtgagga aggtactgcc agaggtctga 188640
cggatccctt tgcaataaac atcctcaact tcagcagata ccattactgc tcgtaattcg 188700

ccgccattgg cgaatttatg acaaataataa cgcgccattg ctccacgaat atgctccaca 188760
aggttaatga catctttttt tcttggcgcc cacaatgcga gcgcttccat aattaatttc 188820
atattacgca cggaaacacg ttcgcttaac aaacgctgca aaacttcaga tatacgttgt 188880
accgtggcat gtctgagcac ttctttaagt aaatcaggaa atttcgcttc cagttgggtcc 188940
agcatatgtt ttgtttcctg aataccgaaa tattcattga cgttgcgcg cagcgtcacc 189000
gccagacagt ggtaaagctc atcaagcgcg ttccgcaaca catagccaag ctcccgaggt 189060
ttctccccct cttcatgcgt taccagaaa tactgactgc taccttgctg atggattgtt 189120
ggattaatgc caaaggaaac aacttcacg gaataattta ccactcgcat caaatcaaaa 189180
tagaccgtaa attgttcaac acggatctca ttaatcaaca atacgatgct gttatcgtcc 189240
aggccctcgc catcgcgtaa caatacttcc ggcaggcgca cgccataatc aataaagaac 189300
tgactacgta ggcgctccgc aagttgagct tttccagat cttcacgccg gctcttcggc 189360
acaagtaata tcaacggtac agtctctgta gagactttat cgagatcgcc aatcagtcct 189420
aacgacgacc cttctttttt ctcaatactg agcggctgct cgcctttgct ggttttaggt 189480
ttggcggcgc tacgttttgc ttcacggaat ttaaaataga agagtacgct taaaaccacc 189540
gataaaataa caaataccgg cagcgggaat cccggcagag ttccattga aatgggtcaaa 189600
atagccgtaa caaccaatac aaatgggttgc ttcaacagct gcgtcatgat attccgcccc 189660
atattatcgc tatcgccatt tacgcgagtc acgataaaac cggcactaat cgcaatcaac 189720
aatgcgggga tctgggcgac aagaccatca ccaatggtca gcatggtata agtagacaga 189780
gcggaggaca aatccatacc atggcgggtc atccccaccg aaataccgcc aataaagttc 189840
acaagatga taatgatgcc ggcaatagcg tcacctttga taaacttcac cgcaccgtca 189900
aaggaaccgt aaagctggct ttccctttcc agtacgcttc gccgttcgcg cgcagcatcc 189960
gcatcaataa taccggcctt caaatcgga tcaatactca tctgtttacc gggcatacca 190020
tccagagaaa atcggggcgc gacttcgcg acgcgttctg aacctttggt aataacgata 190080
aactggacca cggtgacaat agagaagaca acaaaacca ccgccaggct atcgccaata 190140
acgaattgcc cgaacgtggc gataatttca ccggcatcgg cttcaatcaa gataagacgg 190200
ctggtactga tcgataatgc cagacgaaag agcgtggtaa ttaacagtac cgcaggaaac 190260
gttgaaaaac tgaggattct gtcaatgtag aacgaccca taaacaccaa tatcgccagt 190320
acgatattca gtgcgatcag gaaatcaacc agataggtag gtaatggaat gacgaacata 190380
gaaatgatca tcaccattag taccagaatc agtaattcag gtcgtaaag agcactgtta 190440

agtagagaaa gcagcactat aggtatcctg ttaatattaa attaagacag cttttcaata 190500
gtacgacgct gttctgccat ttcattgcttg taggcaatat cggtcatact acgtaacgcc 190560
attaacaatt cttcctgcca atattcttca taaaagagtg aagagggtat ggctttacat 190620
acttgataaa atatctgcaa aaaggatgca tgttctttat gactaagcaa taacgcattc 190680
aaacctataa tatcggctaa cagcgaatcc acttcatgtg gctgttgcaa tagcgaaagc 190740
atcagtagta gccacgacga ctctccgca ttaaagcgtt tggtaaacga atacgacaac 190800
aatgtactca caaacagtag gtcagcggag cgcaacattt taagttgcgt caggcgtcgt 190860
aaaagctggc caaactccag gcgcgaacag ctggcgctcat tcgcgtcaat atcgggttaat 190920
agcgaaccct cgataaaaac cagtaccacc agtcgacgtt gatagccata actggctatc 190980
cagtcagagt aaatctccac ttcattgtgat tcaactctgga taaattgccg atagctggcg 191040
cgcaataagc ctggttttaa cgataatgtt ttcccaaaaa gccgggcctt caacgcacaa 191100
ttaatccctg ccttgagggt cttcggatcg gtttgctctt caacgtgctt aagtaacgac 191160
tccagctttt tccgcacgat ctctccagg tctttacgac gaagcaattc gcgtaacaca 191220
aggactaaat cactggggtc aggaaataag ctacgcgcct gacgtaaaaa atcttctaac 191280
gcgccgccat gtacgctaata tagctttaat atttgcttcg ccttcggtaa agcctcatcc 191340
tccagcacgc gttcaaaact gttagataaa ttactggatt tttttcata atcgcgacgg 191400
ttacgaaatt gcgccagcgc cgctgacatt tcgtccgtcg actggacaaa tttttgtact 191460
tccgcccctg gagacgaatc ctctgcggcc tgttgatattt ccgcctgttg cgcattcagta 191520
tggtgggtcg catcctgatg agatgcctgc cgggacaata ttctggaaaa tgaaatacca 191580
gaggttgagc caggaatcat ttaattacct cctgacctct atccagataa acacgaaccc 191640
atttctgtaa cttatcgtcc ccaactccagg caccgctttg cttcagaata ttgtttaccg 191700
attcgtggtc atccggcggtt aacgggtcga caatttcttt tggttcaatc atgaacacac 191760
gaacaacatt acttttattc ttactggaat aacggaacag gctaccaata agcggtaatt 191820
tgcctaaaac cggaatactt tggacagtat cggatatttg atcccgtgta taaccaccga 191880
ccagcaaaact ttttcgtgc ggaactcttg caatagtgtt aattaacgtt cgcccgaactt 191940
cgggtaacgc atctacggag gtggtagtat cggattgcgg cgtcttatcg ttgccatctt 192000
caatgtccag cgacatttct atctgacct ctgcggaaaa acggggcagc actcggatca 192060
ttgttccgta tgttacatgc tcaagcgcca cattacgttc cccaatcagc ttggtgtaaa 192120
acgttctgtt gttatcaaaa atagcgggaa cattttctct agtcagtaat accggacgcg 192180

aaaccaccgt cgctgtttc ttctcttcta acgcattgac cgcggcgatg aatcgactgc 192240
catcgaggggt acttattgaa gactggttta atgacacgcc aagtttgtcc ccaatagtta 192300
tgctgccgct ccatgaagtg cccaaacgct ccagatcgct ttattaaga tcgacaatcc 192360
acagggataa ttctacgtga cgtttggcga catccagcgc ttaaccagc atttcgataa 192420
aatgcacctg ccagccggtt ccctttacta acaaactggt ggtatccgga taggccacga 192480
ttttaatatt gccgcgcg cgattttgct ttaaagcttc ctgcagactc atgccaccgg 192540
cataatttgc tgctttacct tttctccat tcgctgaaaa tgctggcatc gccgggggtt 192600
cgctactgac aatattacct aagggttgct cttctccctg caataacctt tcaatggccg 192660
tagcaatacc gggaataacc attttctgat cgcgcagatt gtaggtacga tcgcccacga 192720
aggtattggt cagacgcac acccctattt tctggcgctc cagctcaata ccacgtttt 192780
gcttgctcat catggtggcg gcgttgacca ccatatcaac atagacgggt ggccctgaaa 192840
catagaatgt tcctttacgg ttatcgccac gtagcgggta atttttgtta tataaacctg 192900
agcgttttag aaaattgttg aactcattga gtgagacggt gcgtaaagaa accacggcat 192960
tgcgcatttc actggcgctc taaatataga tagcctgccc atcgaaatac caaatcagcc 193020
ccagttgtag ggaaagcttc tccagtaatg cgttaggatc gtgaaactca aagttgccc 193080
taattttttt tcgtgccgcc attttgctaa caatgacagg ctcttttagc tgtagcgcca 193140
tggcacgaa aaatgtccgc aggctatcgt ctttcgcaac aaacccactt ccggttacag 193200
gtattttttc actagaataa ccaggtgcaa ccagaacaag cgcggcacat gccagcactc 193260
tggccaaaag aatatgtgtc ttcatttgtc tgccaattga ataataattg ataatttccg 193320
cggcgaaaac cgcacagct ctttgatctc actagaaaaa tgtgaaggcg atgagtaacc 193380
atgattaacg gctaattggg tgatgttctc gtggccttct aactatttca gcagcgattg 193440
cgccatacgc cagtttcgta attcactctt cgcttttccg cccaacgctc tgctgcacaa 193500
acgacgaaaa tgggtataag aaacgccata gtcttctccc agcattctca tcgtgttgcc 193560
gctggttgac tgagcgagta aatagccaac caaccagtaa ctctcgcttt ttcgtaacag 193620
cgccagtacc ttattgaagg ccggagaagg cgtaataatt tgctgcaaaa accagtactc 193680
gcagcgttta cgatcttgcc aatagcgcg aaactcagga ctcagcaaaa ccattttatc 193740
ggattcagca tatgtcgtgt ccactaatcc tgcgccatcg ataaatgcca gtaatttgct 193800
gagtacttca atttttaacg gtcgaaaaac caggtctcct gatactgggt cgacaacggc 193860
ctgctcgcaa aaaagcagcg cgcttctctg aatcaggcag tttcatgtgt gtcggctttc 193920

agaaaatgac atatgcagct tttgcgcgga acacgtctgt ataaacccatg cttccgggct 193980
gcggattttc cgcttctctc cttctttaag tacttcctgc gtatttagca ttgttgtcag 194040
caccagttaa aaatcatttt aatatgtaaa caataccagg agcgggtggc aaaatcctga 194100
tgcaatcatt atgaaactga tgccaccgc taattaaatt agccaacttg cacagcgctt 194160
gctgatttaa aatagaaaat cagctcatag tatacaaatt atggcttatt gttctacagc 194220
agcaaaaatt cagatattgt catcgggatg gagaattaat tatttatatc aggagttttt 194280
tttgctagca ttctgaaac gcattcgccc cttatcacta ttgtcagata acattctgac 194340
ggttgtgtaa aaacatggcg cctcattctt ctgtagtgg agttaatatg aaaaaatttt 194400
atagctgtct tcctgtcttt ttactgatcg gctgtgccca ggtgccctc ccttctcog 194460
tgagcaaacc ggtacagcaa cctggcgctc agaaagagca actggccaac gcaaatagta 194520
ttgatgagtg tcagtctctt ccgtatgtgc cgtcagacct tgcgagaat aaatcattat 194580
caaaccagaa cgctgataat tccgcatcaa aaaatagcgc aatcagctca agcatttttt 194640
gcgaaaaata taaacaaacc aaagaacagg cgcttacctt cttccaggaa catccacaat 194700
acatgcgttc gaaagaagat gaagagcaac tcatgaccga atttaaaaaa gttctacttg 194760
aacccggaag taagaattta agcatatata agacgttact tgctgcccac gaaagactgc 194820
aagccttata aggccatata accgctgact gaactcatca tgatataatt aagaccatac 194880
tttgcattgc cacttaatat caatataatt attatagcta tggctacttt tacggttggc 194940
catttgtctc ttacgttgca tttatcaatc tgctttttga tacagcagca cctcgctgct 195000
gcttttttta tttgtgataa agaacggcct cccaaactcg ggaaaatagc cgaaacttat 195060
actgataaac tatcgtctcg tatatcgca taaactgaca tccccctctt gccccacatg 195120
ttggcattct tacgataccc catccacttt tcgcggataa cgttcttttg aacttaccca 195180
gcaatagtgg acacacaact aagtgagtaa acgctcaagc aagagggtgac tcacataaca 195240
aaaccagcat caaccaccaa aaagccacgc aagcagcaca cgcctgaatt tcgtcaggaa 195300
gccctgaaac tggcggaacg cattgggggtg cccgctgccg cccgtgagct taacctgtat 195360
aaatcacagc tctacagctg gcgaagcaaa cagcaaactc agctctcttc ttctgaacgt 195420
gagcaggaga tgtccgccgc ttaggggtgt gtccatacta cgcgggtagg atcaatcaag 195480
cagttacggc aaaaaagaga atcatgaata tatttagcaa actccctgat gatacgtaat 195540
cagtgagatt aaaataatgc aatcgcgata aaccgaagtt aatgcctgt ttaaagacag 195600
tgaacgacct tcttgccatg tctggactat atcagcctca catgtacgct ttgaaagcgt 195660

acagatatgt attataattg tacatattgt tcataaacag gaggatgaaa accatgcctc 195720
agatagctat agaataaac gaaagattgt cgttacgtgt atcgacggat gccaaaaagt 195780
tgatagtccg cgctgcggca atccagcaaa ccaacctgac ggattttgtg gtcagtaacg 195840
tactacctgt cgcacagaag attgttgatg ccgccgaacg ggtatatctg acggagcgtg 195900
atactcaaat gatcatggaa attttagata acccgccagc gccgaatgaa aagcttcttg 195960
ccgctgcttt cgcctgccc gacatgaaga aatgatgttt acagactggc atgaggccgc 196020
gatagggaaa acccacaatc gaatgaattt tgattgtggg gatgccgatc tgaaccaatt 196080
cctgcaacgc catgcacgac aaaatcatga gaaagggaca aaaaaaacct acgttgcgct 196140
tgataattcg gatgttacac gtatccacg cttttactca gtcagtcctg catcactgat 196200
atatgcacag gttcccggcg caatcagcaa aggattaggg agatatgatg tgccagtgtt 196260
tcgtctgggt cgtttagccg tagacaaatc tatgcagggg caagggtcg gagcacaact 196320
tttgttatct gccggaaagc gttgcataca ggcggtttg caggtcggtg gcgtagccct 196380
gcttattgat gccaaaaata aacaggctctg cgactggtag aaaggatttg gcgcagtacc 196440
attaaacgat caacccttt ccttggtgct gtcgtttaaa acgctttatg ctgctttatc 196500
tgcatctggt aggttatgac aacatgaggc tttggtgaat aattcagaat cggccaacga 196560
taaggataca ggactccac cgagcactc gttatacgag cctgacgctg gtcagcattg 196620
ccaacaacgt catccggttc agcgcttga ccatcgccat cgccatcgct tcaccacact 196680
gcgcgtcata gttccgcagg ctcagatggc cgcccagcaa ggttttgaga cggaacatcg 196740
ctgtttccac tactgaacaa cggatgatag ccactttctt ttccagacct cattgctgcc 196800
gctcagatgt tgattcgcca ccgctggtt acgctcatgg tacttgcccg gccagtatcg 196860
cgcaccgctt cgtggcggga ttagcggcct gattaataac acatcatggc aatagcgcgt 196920
gtcataagcg ccgtcagccg aggcttcctt gattttacgg tgagtctggc taatcagccc 196980
cggcagtgcc tgcgcatctg tcgtgccgct gagcgggaaa gtatgccttt gcaattaatc 197040
aggaaagtgt tgcgcgagaa atagcgcac tttcaagcac atcgtctact ttaattaacc 197100
gattcataaa atatatatta tctgttcatt tctagcttgt aggctatttt aataactgtg 197160
tatttttaac aataaaaatt aatattacc tacttctttg ttataatacc agcctccaaa 197220
attgtgctat aggaacatca tggaaattaat tcgttatgct gacatcaaca gcgttctcta 197280
tcgccacatt tgggtcgttg gtgatattca tggatgttac tccttattgt taaccagact 197340
ggctcaatta aatttctctc ctgataccga tctcttgatc tccactggag ataacattga 197400

-130-

tcgaggaaaa gaaaaccttg aaacactgag actgttaaata acctcatggt ttattttctgt 197460
agtgggtaata catgaagcta tggcgcttga cgcttttgaa acacaggatg gcaattttctg 197520
gtatgtaaac ggtggttact ggtacgactc ggtcacccaa aaagacaggc aagaagccac 197580
tgagctatta ctaactttta agcagcgctc tcacatcata gaggttaaaa cgtcctcaaa 197640
gaagtacgtg attgcccattg ccgattatcc agatgacagc tacgattatg ggaagcaagt 197700
tgatattgat agcgttctat ggtcacgcga tcgtctgctt agttcgttac aggggaatat 197760
ccatccaata cgcggtgcgg atactttcat cttcggccat atgattggtg attacacaac 197820
aacattcgcc aatcaaactc acattgacac cggttctttc tgttcaggca atctgtcttt 197880
ttttaaaata aagtagtctg gaaatagaat tatataatat taaccctccc tgcattatgg 197940
caatgatata gccttcaata agtaccattg ctcatctgta atagcgtcta aatttcgcgt 198000
ttttccgccc atttcatcat taagatcgca gaccaaaaaa cgaagccgta atccgacgca 198060
ggtagttact cgatcgctg agaagagtaa agatcgca gctcaagata cctatcgga 198120
taaagcacia taaccgtggt ggcgaaatgg atcggttgc cttcatgcaa cacaatcttg 198180
attacggtct tgagttcgga agcatccgtt tccctcttaa ttttggttg atttctcttt 198240
gttgogaaca tggctgaac taattgcctg cagattgcct tgtttcgtca atatttgga 198300
aatcgaacac attttcaact tttactttca agacagaact tggcttccta cctcactga 198360
cattacgata tgacgaggct actcttcgct ggattacgta ggtttttttc gtcaaactgg 198420
cttttaccac gaaaccagca ggagcttgtc tgtggtcatc gaaaacaatg tagagttttt 198480
gagctgggtt agcttcgaaa acgatttttc cagagcgact gagcgagac ttaacattga 198540
tacttaactt gttgataatg aaaggctggc tgagagttgt tttcaaagta tcaccctgt 198600
tgtagtccag gaatgatgag aatgtaacct gtcacatttt aggctacaga tgagctacaa 198660
atztatgggt ttatgtgagt ttataggggt tttacctatg gccacatgag cacttgaaag 198720
aataaaaaac gagtaaaatc aatatgaatg agtcatttga taaggacttc tccaaccaca 198780
cccccatgat gcagcagtat ctcaagctga aagcccagca tccggagatc ctgctctttt 198840
atcgatatggg agacttttac gagctgtttt atgacgacgc aaagcgtgcg tcgcagttgc 198900
tcgatatttc gctgaccaa cgcggcgcat cggctggcga acctatccct atggcgggta 198960
tccgcacca cgccgtagaa aactacctcg cgaaactggc caatcagggc gaatccgtcg 199020
ctatttgca acagattggc gatccggcca ccagcaaagg tcccgttgaa cgtaaagtcg 199080
tgcgtatcgt tacgcctggc accatcagcg atgaagccct gttacaggag cgtcaggata 199140

acctgctggc ggctatctgg caggatggta aaggctacgg ttacgccacg ctggatatca 199200
gctccgggcg ctttcgtctg agcgaacccg ccgaccgtga aacgatggcc gcagagctgc 199260
agcgcaccaa tcccgcgaa ctgttgatg ccgaagattt tgctgaaatg gcgttaatag 199320
agggacgccg gggctctgcg cgtcgcccggt tgtgggagtt tgagattgat accgcccgc 199380
agcagttaaa tctgcaattc ggtacgcggg atctggctgg tttcggcgctc gaaaatgcoct 199440
cgcgtggatt atgtgcggca ggctgcctgt tacagtacgt aaaagatacc cagcgcacct 199500
ccctgccgca tattcgttcc attacgatgg aacgccagca ggacagcatc attatggatg 199560
ccgcgacccg ccgcaatctg gaaattacc agaacctggc cggcggtgtc gaaaataccc 199620
tcgcgcgggt gcttgactgt accgtgacgc caatgggtag ccgaatgctt aaacgctggc 199680
tgcatatgcc ggtacgaaat accgacatat tacgtgaacg ccagcagacc atcggcgcoct 199740
tgacaggatac cgtcagcgaa ctgcaaccgg tgctgcgtca ggtcggcgat ctggagcgca 199800
tccttgcgcg tctggcgctg cgcaccgcgc gtccgcgcga tctcgccga atgcgtcacg 199860
ccttccagca gctgccgaa ttgcacgctc agcttgaaac cgttgacagc gcgcgggtac 199920
aggcgttgcg taaaaaatg ggcgatttcg ccgaactgcg cgacctoctg gagcgcgcca 199980
ttattgacgc gccgccggtc ctggtccgcg acggcgggcgt tattgcgccc ggctaccatg 200040
aagagctgga tgaatggcg cgcgtggcgg acggcgccac cgattatctc gatcgtctgg 200100
aaattcgcg aacgcgagcgt accgggctgg atacgctgaa agtcggctat aacgcggtac 200160
atggttatta cattcagatt agccgtggtc aaagccatct ggcgcccatc aattatgtgc 200220
gtcgccagac gctgaaaaat gccgaacgct acattattcc tgagcttaaa gagtacgaag 200280
ataaagttct gacctcgaaa ggcaaagcac tggcgctgga aaaacagcta tatgacgaat 200340
tgtttgatct gctgttgccg catctggccg atttacagca gagcgccaac gctctggcgg 200400
agctggatgt gctggttaac ctggccgaac gcgcctggac gctgaattac acctgcccaa 200460
catttaccga taaaccgggt atccgtatta ccgaaggctc ccaccgggtg gttgaacagg 200520
tactgaatga gccgtttatc gctaaccgc tcaatctgtc gccgcagcgc cggatgttga 200580
tcattaccgg cccaatatg ggcggtaaaa gtacctatat gcgacaaacg gcattgatcg 200640
ccctgctggc ctatatcggc agttacgttc cggcgcaaaa cgtggaaatc ggccccatcg 200700
accgtatddd taccgcgctc ggcgagcgg acgacctggc ttccgggcgt tcgaccttta 200760
tggtggagat gaccgaaacc gcgaacattc tgcataatgc gacggaaaac agtctgggat 200820
tgatggatga aatcgggcgc ggtacctcca cgtatgacgg gctgtcattg gcctgggcct 200880

gcgcggagaa tctcgcgaat aagattaaag cggttaacgct gttcgcctacc cact acttcg 200940
agctgacca attaccggag aaaatggaag gcgtggcgaa cgtccacctg gatg cgctgg 201000
aacacggcga tactatcgcg tttatgcaca gcgtgcagga cggcgcggca agta agagct 201060
atggcctggc ggtcgcggcg cttgcgggcg tccctaaaga agtcatcaaa cgcg cgcgcc 201120
aaaaactccg cgagctggaa agcatctcgc ccaatgcggc ggcaacgcag gtggacggca 201180
cgcaaagtgc gttgcttgcc gccccggagg agacatcgcc cgccgttgaa gcgc tggaga 201240
atctcgatcc ggactccctg acgccacgcc aggcgctgga gtggatctat cggc tgaaaa 201300
gtctgggtga aacgtgtcag acccgatagc gccgcgctat cgggtctgcg cgcc ggaaca 201360
ggcttttcag gctgtggctg tcgtttcatg taaatgacgc cagactatcc gtcc tctttc 201420
cctttttaa atgaccgtcg accagcgtac cgtctcggcc tggcccgga gttg ctggcg 201480
ctcacgataa cgcagcgcg cgcttccg ccaactccgc acaagatcaa tgtg ctcaac 201540
catgataacc agccccgggc gacacgcgcg ctgcgcctgg aaaaaagcgc ccag cgccgg 201600
ataatccaga caaatacctc ctggcgttat catcgtaaaa tcaacagcaa aacg cgctat 201660
caacgcctcc aggtacccc cccccctta ctaagccagt tctcaatcgc cgca tgggca 201720
tgaataattt cttctttata tggattcatg atctttcctt tttcaggcac agaa gcgcct 201780
gtctattgtt tagacagaca gcgtaaataa ggggcagcag ggtgataccg gcgg cggcaa 201840
taaaggtcca gcgataagca acctcaagcg acataacgcg ctggagcgcg ttta acagca 201900
gcgtcaacag cgtcgcgcca aggaaaaagc taagctgacg attaagattc cata gcgcgc 201960
tggcgtcagg catgtcccg cgagcaatag tcaggaaagc gccactctgc gcggtactgc 202020
tgcacaaact gccgccagcg cccattaagg cgaatatcat catcagtaca cgat gcgatg 202080
tcgcaggcgt aacgttagtt aaaagcagta tcctgcagc ctgaagaaga cagc cgacga 202140
taatcagcgg acgcggccca agccgattga agtaacgtcc ggtaagcata atgg cgacaa 202200
atgaagcgat cgaccaggg agcatcagcg accccgcgc cgcaggcgat agct gcgcga 202260
cgttctgtag ataaaacatc ccgaccacgc tgataccaat gaacataccc ggca cacaca 202320
gatagacgat catggcaaaa cgcagcagct tgtccgtcaa caacggcaga tgga gcaatc 202380
ttgctgacgc cattgtcgtc gaagcgacgt tcagccaacg ataagcgagc aata aagtga 202440
gaacggccac cggcagcgtg gcaaaaaata tccagcgcca gccgcacgtt tcca ccagca 202500
gcccgccaat cgcaggcgaa catgccggcg ccagtagcgc caccatcatg acga ccgatg 202560
acacgccagc gcgttcatgc ggtttaaact gttgccaggt taacgcctga ccaa ccggga 202620

tcaataagcc accgcccgcc ccttgacaaa tacgccagaa aacaaggctg tgtaaggaat 202680
cggcaaaacc tgcggcagcg gcggcaacgc taaacagaat gagcgaaaat atgatcagcc 202740
gtcgtgcgcc gagataacgt gaaagaaacg cgctaaacgg aacgatcagc gttaatcctg 202800
cgatataacc gttactcacc catgccagcg cegatatgga cgtatgcaga tccacggaca 202860
tcgcaggaaa agccacgctg gcaataaaca gattaatcag atcaagaaag aagccgagca 202920
ggtaaaccac tgccacttta ctgcgatacg tcattatgca tcctccgtca gaggcgctaa 202980
tgtagccgtc cggagaaaagc cagataagtc cgcgcttcaa cgatatactg tcaaaataat 203040
tttgacagta aaggagctcg ccatgctcaa ttgacagcgt atgtcgctgt ttgtcgccgt 203100
ggtagatagc ggcagcttca cggcggcggc cgcgcacatc ggccaaacaa aagcggtagt 203160
gagttttaat attcggcagc ttgaaaaaga gcttggcgta acgttactgc tacgttccac 203220
ccgacgactg acgctcacag acgcccggcg cctcttttac caaaaaggcg tgaatttact 203280
caatgcagcg aaaaatttgc aggatgaagt gcgtgccagc catagtgggc tgggcggcga 203340
gttacgtatt accactacgc ccgagtttgg cgaacaggtg gtcattccgg tactggcgca 203400
gtttagtcag cgccatcccg atctccgtat tcggcatatg tcctcatcac atcatgccga 203460
tttaattgcc gagcgctttg atgtggcgat tcggcttggc tcgctggcgg actcccgcta 203520
tcgcgcgcgc ctgatatccc gctttaccat tctgccggtc gccgcgccgc agtggctcgc 203580
ccgccacccc gtgtcgtcac tggagtcggt ggcccaggcg gaatggatta ttcattgagcg 203640
attacctacg ccgctacggt ggacagtaac gaataatcat ggccaacact cacgcctgga 203700
gataagcaaa gccggcaaaa ttctctgtcg cagcgcgcgc tcgctgatgg ccttcgctct 203760
cgcgggaagc ggcgtcgcat tactgcgcga atggttagtc aacaccgcac tggaggatgg 203820
aacgttaatt cacgtgttac ccgactatca ttttccccgt cagggcattt atgcggttta 203880
tccagacgcc cgccatgtat cgacaaaagt acgcgcattt attgattttt tacgttcgca 203940
atgggattgc ggggagcacg ccccatcatt gtagccagcc cgggagcatt gcgctcccgg 204000
acggataata ccgtcttaat ccttaactac cagtttgtct ttgatcccct gcgcctgcc 204060
acgcacccac agcataattg ccgccagaac gacgattggc agtaacggat cgagccaact 204120
gccgccggaa ccaaacagca ggttaatcag cgccacgcgc gtgccgccaa tcgccaggc 204180
aatggctcgtc ggtacagacc aaaccacat ctgctgtttg acatcagaga cgcccatcat 204240
gcggttaacc acccagaaca ggctatcggt gaagtagccg aaaaacagcg accccatcgt 204300
tcgcggcctga gcggcaagca acatattgat gccggggatc tcgcccagga tcggcgcgga 204360

aatcgaggcg gcagtgatca tcgccaccgt ccccgatccc tgaatcagac gtaccagcgt 204420
cgccacgata aacgggatca ggatcggcga gatcggcagg ttggcaacct gctccgccag 204480
ctgttgcccc gcgcgcgtgt cgcgcaggat cgcgccaac gcgcgccag cgcgcgtgac 204540
cagtaagata atccccggcg tttgcaagcc ctcttccaga cgctctgcgg tggatatgtt 204600
atccatgcgc ggcaccagcg tatacaccgc cagcagaacg ctgatggcca acgcgatcac 204660
tggacttccc acaaagttga ttgcctgtac caccggatgc gtcgccaggc cggaccatcc 204720
ttctacagtg gcgaggggtg aacagatagc cttcaggaag atcagcacga tcggcaccac 204780
aataggcagc agagagagcg tcaggctcgg cagatccttt tgctctttct ctttattgta 204840
ctgctccagc gcggcattaa cttcatcggc gttcagcgtg cgcggcacga aatcagggtta 204900
gcgtttatcc agccactgcg catagaacac aatgccgatc acacagggca ccgccagcgc 204960
catcccggtc aataacattg caccgatgtc gacgttaaaa atcccggtta ccccgagcgg 205020
accgggctg gcgaggtacc tatggtgagt gaccaccagc ccgccgccca gcgcgacgc 205080
cagcgtcagt agcgaacgtt taccgctttt cgcagcgtt ttgccaccg gataaagaat 205140
gacaaaagcg gaatcgacga aaatggggat gctgacaata taaccctga tcgccagcgc 205200
ccactcttca cggcgtttcc ccagccattt gataaagctc caggcgatac gctccgcgc 205260
gccggaaacc tcagcaagc gcccattcat tacgccgaga ccaatcacca ggccaatgct 205320
gcccgagctc gtaccgaatc cgctggtgat gacagagagc gttttatcaa tgccattcc 205380
ccccaacaga ccggcgatgc aggcgcgcgc cagcatcgcg atcagcgcgt gaacacgggt 205440
gcgtaacacc agccatacca gcaagaaaac ggcaacgatc aggcggataa ttggggctcg 205500
taaacttgct atgaactccc ctccatatca tcttgtcgaa agcgttcgat aatgtcatcg 205560
aagcgtttat cggcgacaaa acctaacgcc agcgcacgct ggttatcgat acgtcccggc 205620
caggaggcga caattttctc gacgccttcg tcgcgctgat gcgtaaccgc atcgcgcgc 205680
gcctgaccgc ccgcctgacg caacgtttcc agcatctcgc ccacggttac gctgatccc 205740
ggtaagttga tgctgctcgc ctgccaggc gcgggtaacg ttgcggccag cgacaggtta 205800
tggtacaccg tcgcggggct ggaaatccac agccgcaaac tttccgacac cggacagatg 205860
gtcgtctcgc cctgcaacgg ttcacgaata atcgcgctga caaaagaaga agcggcgcg 205920
tttagtttac ccgggcgaac acagatcgtc ggcaaacgca gcgccagccc atccacatag 205980
cctttgcggg tatagtcgtt gaccaacagt tcacaggcgg cttctcgcgc gccataaga 206040
gagcgcggcg tgagcgcggt ggtatcggtg acgcattccg gcagcgtacc gccataaac 206100

gcaagcgagc tggagaagac aaaacgaatt ttctgcggtt gccgacgaca cgcctcaagt 206160
aactggcggg taagatccag gttaactttc catcccagat cgaaatcgtc ttccgcataa 206220
ctgctgacaa tcgcagcgag atgataaaca acagaggat tagcggtaat cacattctcc 206280
agtacgcccg gctgggttaa gtcagcttcc aggcagcgta aacgagggga atctgataac 206340
cgtgcaggca tttttaaatc aacaagaagc agttcggtta acgccagcga tgagttaa 206400
aaggcgcttg cgagtttctg gcctaaaaag ccgccccgc cggtaatgat aatctgcatc 206460
cggatgtcct ctttattgtt gtgtagggtta gttcagggtt agcgccaggc gttaaaccag 206520
ccaagcccct cctgagtggg attccgtggg ttgtattcgc agcctatcca gccgcaataa 206580
cctacgtcat cgaacagccg gaacagccac gggtagttga tctcgccatc atccggttca 206640
tgtctgtccg gtagcgaggc gatttgtaca tgggcatagc ggcccgcgta ctcgcgatc 206700
aggtgactca aattgccatc cactttttgc gcgtggaaaag tgctcgagctg gatgaataca 206760
tttgggcggg caacctcttc tgcgatgcc agcgccgtgat attggctgga aaagaggtag 206820
ccgggtttta ccgccgggact cagcgcttcg atcaaaatac gtttatcgtg ggcggaac 206880
cggccggcgg cataacgcaa attatcgata aacgtggcgc gataacgtgc gccatcagcg 206940
ccatccggca cgacgcccgc catgatgtga acctgctcgc attccagcgc cagagcgat 207000
tccagagcca gatcaatc ggcgcgcgcg tcgtgttcgc gcccggtag cgcggcacgt 207060
ccccactcgc ccgcccgggt atcaccogcc gaagtattaa acagcgccag cgtcagatca 207120
tgacgcgata gctgggcttt aatctcgtg gcggcaaagc cgtaggggaa cagaaactca 207180
acggcctgaa aaccggcttc ggcagcagcg gcaaaacgct cgataaacgg cacttcggta 207240
aacatcatcg acaaatcggc ggcaaaacgc ggcacgggt tatctcctta actgcgcaat 207300
ttcttcgggt gttaaataac gaatcggcg ttccgcaagg ataaaaatca gctttgccgt 207360
ctcttcagc tcctcggtat tattagcggc ttctgcaaa ttctccccgc acacgaccgg 207420
cccatgatta gccagtaaaa aggcctgat ccgggcccgc agcgagcca aatcgcgagc 207480
aattcggtca tccccgggc gatagtaggg aaccagcgga atgtctcca tccgcatcac 207540
cacatagggg gtaaacgggc gaatcacatt ttgcgggtcc agcccttcga gacaggaaag 207600
cgccgttgac cagggtgctg gcagatgtac cacggccttg cagcaagggt tattgcgata 207660
caacgccaga tgaacgca cctctttaga cggtttatcg ccgctgagcc attcgcttg 207720
cgggtccact ttggatagcc gctgcgggtc gagattacc agacacgaac cgggtggcgt 207780
cgccagaata ttgccgtccg gcagtaacag cgagagggtt cctgccgagc cgggtggcata 207840

gccgcgctgg aaaaacgagg cggctatcct gaccatctct tctcgaaaag cgtgctcttc 207900
ttttgccagt atcgtcatac ctgaaactcc ctttgagcgc ggatgaaaaa ggattcatcg 207960
ccaaaattac ctgacttttag cgccagcgag actggcgcat ggagcgcggtt gaccacggc 208020
acgccgggtg aaatgcacgg tccaatgttg aaaccggtaa taccgaggct ttgcgtcacc 208080
acgcccaggg tttcgccgcc cgccacaata aaccgggtga taccgccttc cgctaagcga 208140
gcggccagca gggaaaagag cgccctctacc gcatagctgg cttcggtagc gccatattgc 208200
tgctggatgg cagccagcgc ctgcgtggag gcggtggcgc taatcattgg cgccagttcg 208260
ctgtcctgac tgaacaccca ctgcgccagc gcttcggcgt aggcctcgcg cgccctggat 208320
gacaggcagc gcgccacgtc aacgtcgcggt gtgggagcat gttgtcgata gaaagccacc 208380
tgctgattcg tcatttgca acaggaaccg gaaagcacta ccgcgcgacc gctcagcgga 208440
tagcctgcgg aacgggcctg agaaacgccg tgcttcgccc actgacgcgc cagccccatt 208500
gccagcccgg aaccgccggt caccagcggg gcatcacgca aaacctcgcc ctggatttcc 208560
aggtgccgct cattgagcgc gtcaagtacc gcgtagcgat atccttctctg ctgtaaagcgc 208620
gacagcgccg cacgggtcgc ggcaacgcct tcatcaagcg tctgagccgg aataacgccg 208680
cagcgccctt gcgctgcgc ccggtgtatc gctgatgcga taaacgttgc tggcaacggc 208740
gtccagcaca ggcttcaggc gggtaaagcgc cgccctcgcg ccggaggcca tcaccgtccg 208800
ccctgcgccc cttttaccgc gcgcgcggaa accggcgcat ccagcatgtt aagattcaat 208860
gccgtcaacg ccgcggcgat ctcttgcgcg tcggcgcttg agatcgtaga cgaaaccatc 208920
accgcgcttc cgggtttcat cagatggcg acgccatcct caccgaataa cacctgtctg 208980
acctgggcgg cattgacgac cagaatgact aacgcatcca cgacgccggc gaactccctg 209040
gcgctggcgg cagccccaca agcccttca gcgagcagat tcgcgcacgc ttgcgggtta 209100
agatcggccc cccatgtgga aagcccgcg cgcaggcatg aacgcgcagc gccattccc 209160
attgagccaa gccccacaat gcgcacatga aaatcagttc ctgttgtcat tatcactcca 209220
tgttaattta cgtgatatta tgttttggtta tgtgaatata ggcgtttttg taaacaattg 209280
cggtgagttg tttcacaaaa aataacaaaa tatgttattt tttgtgaagg caatcctcat 209340
agaacttcac acgctgtgac gagaaatcgc gtaaaatcgc gacaggacta aagaaaggag 209400
cagacgttga tacctactga gcgtcgacaa atcattcttg atatggtggc ggagaaaggc 209460
atcgtcagta tcgctgaact gaccgagcgc atgcatgtat cccacatgac tatccgccgt 209520
gatttacaaa aactggagca gcaaggcgcg gtaatccagg tctctggcgg cgtgcaatca 209580

tcgactcgcg tggcgcacga accctcgcat cagatcaaaa ccgaactggc gacgccgcag 209640
aaagcggcga ttggcaaact ggccgccagc ctggtacagc cagaaagctg tatctacctt 209700
gatgcaggta cgaccacgct ggcgatcgcc aggcagctgg ttacgatgaa taaacttacg 209760
gtggtgacca atgatttcgt tatcgccgat tacctgatgg acaatagcgg ttgcacaatt 209820
attcacactg gcggggcggt atgccgggaa aaccggtcgt gcgtcgggtga agccgcggcg 209880
acgcttttgc gcgggctgat gattgaccag gcctttatctt ccgctcttc ctggagcgtg 209940
cgcggtatctt caacgccggc agaagataaa gtcacggtga aacggggcgt cgccagcgcc 210000
agccgccaaa aaattctggt gtgcgacgcg accaaatacg gccaggtcgc gacgtggctg 210060
gcgttatcgc tggcggaatt caaccaaata gtcacgatg acggcctgcc ggaaagcgca 210120
attcgggcgc tggctaaagt ggatatctca ctgctgatgg ccaaacaata gcgaagcggc 210180
gcaagccgct tacgtcatca tcttgcaaac cagttgcgta aactgttcgc gttcttcagc 210240
gctcagtcgc cccaaaaact catcgtcaac gcgatcccc agtgggtatcg cggcggcgag 210300
caacgtttgg ccctgaacgg tgagatagac aaaacgccga cgtttatcca gcggatcggt 210360
ttctcgcttt accagcccac gattttccat ccggcttaac atctccgccg gcgtcgcttt 210420
agtgtgacc gccgcttcgg tcagatcgac ctgttcaata cccggatggt cagcaataac 210480
gcgcatcacc gcatattgag gtttggtgag ctccggtagt tcatgctgcc agcgtgcggt 210540
atgttgctga aaaagtggc gtaacagatg aaacgcggtg ttctgtaact ccatgagcgc 210600
tccggataaa ttaacttttt ctatcataac gacttatgca cggtttttta atgacgaatg 210660
ctttagctaa acgtgcgcag gcatcgggag cgatcttgct gcaaaggccg tgtgggcgta 210720
ttttgatcaa aatgttcgta tacgaacgat atttgaggta agaaatgaga ttgattgtgg 210780
ggatgaccgg tgcgaccggc gcgccgcttg gcgtcgagct actccaggca ttgcgggcga 210840
tacctgatgt tgaaacgcat ctggtaatgt caaagtgggc gaaaaccact attgaactgg 210900
agacgcccta cacgcccgt gaggtagccg ccctggcaga ttattgtcat agcccgcccg 210960
atcaggcggc gaccatttcc tccggtcat ttctgaccga cggcatgatt attatccct 211020
gcagtatgaa aacactggcg ggggttcgcg ccggctatgc cgatgggctg gtgggacgcg 211080
ctgccgatgt cgtgttgaaa gagggtcgca agctgggtgt tgtgccgcgg gaaatgccgc 211140
tcagcacaat tcacttgaa aacatgcttg cgctttctcg tatgggggtg gcgatagtgc 211200
cgcccatgcc cgcgttctac aacctgccgc aaaccgttga cgatattatc cagcacatcg 211260
tggcgcgcggt tctcgaccag ttggtctgg agcatacgcg cgcgcgccgc tggcaaggac 211320

tgcgacaggc agcaaatttt tcacaggaga atggataatg gcatttgatg atttgcgag 211380
ttttttacat gcgctggatc agcagggaca actgctgaaa atcagcgagg aagtgaatgc 211440
ggagccggat ctgcgcgccg ctgccaacgc aacgggacga atcggcgatg gcgcgccccg 211500
gctgtggttt gacaatatc gtggtttttac cgacgcccg gtggcgatga ataccatcgg 211560
ttcctggcag aaccatgcca tctctctggg tttgccgcct aacacgccg ttaaaaaaca 211620
gatcgatgaa ttatttcgcc gctgggacaa ttttcggta gcgcgggaac gacgggagaa 211680
tccgggctgg gcgaaaaata ccgtcgacgg cgacgcgatc aacctgtttg atatcctgcc 211740
gctgtttcgt ctgaacgacg gcgacggcgg attctatctg gataaagcct gtgtggtatc 211800
acgcgatccg ctcgatcccg ataacttcgg caagcagaat gtcggcatct accgtatgga 211860
agttaaaggc aagcgtaagc tgggtctgca accagtgcg atgcatgata tcgcattgca 211920
cctgcacaaa gccgaagagc gcggggaaga tctgccgatt gcgatcacgt tgggtaacga 211980
tccgatcatt acctgatgg gcgcaacgcc gctgaaatac gatcagtcag agtatgaaat 212040
ggcaggcgcg ctgcgtgaaa gccctatcc tatcgccacc gcgcgctga ccggttttga 212100
tgtaccgtgg ggatctgaag tcattcttga aggggtcatc gaaagccgta aacgtgaaat 212160
tgaagggccg ttcggcgaat ttaccggcca ctattccggc ggtcgcaaca tgaccgtgg 212220
gcgtatcgat aaggtctctt accacagcaa acccattttt gaatcgctct atttggggat 212280
gccgtggacg gaaatcgact acctgatgg gccggcgacc tgtgtgccac tgtatcaaca 212340
gctgaaagcc gaatttcgg aagtgcaggc ggtaaacgct atgtacacc accgcttgct 212400
ggccatcatc tcgacaaaa aacgctacgg cggctttgcc cgtgcggtg gcctgcgcgc 212460
gatgacgacg ccgcacggtc tgggatatgt gaagatggtg atcatggtg atgaagatgt 212520
cgatccattt aatctgccac aggtgatgtg ggcgttgctg tcgaaagtga atccggcagg 212580
cgatctggta cagctaccga atatgtcgt cctggaactg gaccggggt caagcccggc 212640
ggggattacc gacaaactga tcattgacgc taccacgccg gttgcgccag ataaccgtgg 212700
tcactatagc cagccggtg tggatttacc ggaaactaaa gcctgggctg aaaagctgac 212760
cgccatgctg gccaacgta aataaggagt aaccgatgat ttgtccacgc tgtgccgatg 212820
cacatattga actcatggcg acttcgccg taaaaggagt ctggacgta tatcagtgtc 212880
agcattgtct gtatacctgg cgcgataccg aaccgttacg ccgtaccagc cgcgaacact 212940
atccacaagc gtttcgcatg acgcaaaaag atattgatga cgcgccaatg gtgccgagta 213000
tcccgcggtt gctggcagaa gacaaacggt aaaaaaagg ccagtctgtc gactggcctt 213060

tttttgacaa gggacttac tcgcggaaca gcgcttcgat attcagcccc tgcgtctgca 213120
gaatttcgcg cagacggcgc aggccttcaa cctgaatctg acgaacacgt tcacgcgtaa 213180
gaccgatttc acggcctaca tcttcacgtg tcgcagcttc atatcccagc agaccgaaac 213240
ggcgcgccag cacttcacgc tgtttggcgt tcagttcgaa caaccatttg acgatgctct 213300
gtttcatatc gtcattctgc gtggtgtctt ccggaccgtt ctctttttca tcggccagga 213360
tgtccagcaa cgctttttcg gaatcacgcg ccagcggggt gtctaccgag gtaatgcgct 213420
cgttgagacg aagcatacgg ctgacgtcat caaccggttt atccagttgc tctgcaattt 213480
cttcgcgact cggttcgtgg tccagtttat gcgacaactc acgtgoggtg cgcaggtata 213540
cgttcagctc tttacaatg tgaatcgga agcgaatcgt acggggttg ttcataatcg 213600
cccgttcgat tgtctggcga atccaccagg ttgcgtatgt tgagaagcgg aaccgcgctt 213660
ccgggtcaaa cttctcgact gcacggataa gcccagggtt gccctcttca atcaggtcca 213720
gcaacgccag tccacgattg ccataacggc gggcaatttt taccaccaga cgcaggttac 213780
tctcaatcat gcgacggcga gaagcgacat ctccacgcag tgccgcgacgc gcaaaataga 213840
cttcttcttc ggctgttaac agtgggtgaat acccaatctc accaaggtaa agctgagtcg 213900
cgtccaacac acgctgtgtg gcccttgcg ataacagctc ttcttcagcc aggtcgttat 213960
cactgggttc ctcttcactc aaggcttttt cgtcaaaagc ctctactcgg ttctcatcaa 214020
attccgcgtc ttcattttaa tcatgaactt tcagcgtatt ctgactcata aggtgggtcc 214080
tacccgatgat cccttgacgg aactagcaag tcaaagcctg gttccgcgcg tttatcgctg 214140
cggtaaataa cgcagcgggt ttacggattt ccccttgtaa cgaatttcaa aatgcaagcg 214200
tgtagagctg gtgccggtgc taccatagt agcgattttt tgccccgcct taacttcctg 214260
ttgttcccg accagcatcg tatcattatg ggcgtaggca ctcaggtaat catcgttatg 214320
tttgatgata ataagattac cgtaaccacg cagtgcgtta ccggcatata cgacgcgccc 214380
atcagcgggt gcgacgatag cctgtccctt actgcctgca atgtcgatcc ctttattgcc 214440
cccttcggaa gcgccaaagt ttcgatcac tttgccatcc gtcggccagc gccatgcgga 214500
aatcggcgcg ctggttgacg tactgcttgc atttggttcg gtcgtgctta ccgttggtgc 214560
cgttacaggc gctgtgacaa ccgtcccagc aggttggttg tttggcaaca ttttggttagc 214620
actttgttca cctgagccct cagaatacgt aattgttggg tgagacgcaa ctgcaacggt 214680
ggaattttgt gcagacctg tcacaactcc ttgctgtgct gcatccgcct gggatgatcg 214740
atttcgcga gtaattggcg taccggatgc gttaccaact tgcaaagttt gccctacatt 214800

-140-

caggctatac ggggcagaaa tactgtttct ctgggccaga tcgcggaaat cattcccgt 214860
aatccaggcg atgtaaaaaa gcgtatcacc ctttttcacg gtgtaagtac tgccgcccgt 214920
atagctacct ttcggaatat tcccatactg gcgattgtat acgattcgcc cattttccat 214980
ctgcacgggt tgttcogtga ccggttgagt ttgcatgggc tgcgttacag gacgtgaac 215040
gggttgaatt tgcggcgctt gttgcggcgt cgcgccatt tttggcggcg gtgtgatcaa 215100
catcccggaa ttggtatttg atgacgacc actgtccaca gacgtgaccg gcgcggagg 215160
gtttgacgaa ctggtacaac ctgccagcca tagtgaaacc agtgatagtg ccgcaatgcg 215220
actaacggtg aattttgggc ttcccgcgct catttatccc ccaggaaaaa atttggttaa 215280
caaccagtga cgtaagaacc gtgcaacgca ttaagtgaac acgggaaaat gtgttcacga 215340
tacgcttaac ccaccgggaa taaccaggaa aactccagggt attcgtttcg gcttcacag 215400
gcgtaatagt ggctgtttgc agggcaaact aggcagctc tcccttgact aacgggacga 215460
agcgaacggc ctccacggta tcgataataa attcgccgcc ccggcgacgc acgcgtttca 215520
aaaactgctg ctcatcgccc acaggcagaa caagaatgcc gccttcaccc aactgtgcca 215580
tgagcgcggt aggaatttcc ggcggcgcg cggtcacaat gatagcgtca aacggcgcac 215640
gcgcctgcca gccttgccag ccatcgccat gacgggtaga aacattatgt aaatcgagct 215700
gcttcaggcg gcggcgcgcc tgccattgca gcccttaat ccgctcaacg gagcaaact 215760
gatgtaccag atgcgctaga atcgccgtct gatagccgga accggtgcca atttccaaca 215820
ccctggattg cggcgctcagt tcgagcagtt ccgtcattcg cgccaccata tagggctgcg 215880
aaatcgtctg accctggcct atcggcaaag cgatattttc ccaggcctta tgttcaaact 215940
cttcatcaat aaattttctg cgcggcactg cggcaagcgc attaagcacc agctcatctc 216000
tgatgccctg cgcgcgcaat tgttcaagaa gagcctgtac acgtccactt accattgcgt 216060
gccaactccc acgctgtcta accagtctga aaccacatca tgcgcgctgt gcgcgggttaa 216120
atccacatgc aacggcgtga cggagacgta gccttcaccc accgccgcga aatcgggtatc 216180
cggcccgga tcgtatttat cacccggcg gccaatccag tacaatgtat taccgctgg 216240
atcttctgc gggatcactt tatccgctgg atggcggtta ccgcagcgag tcacgcggat 216300
gcctttaacc tgcgctaact gtagatccg gacattcacg ttgagaatac gcccggtacg 216360
caacggctcc cggcttaacc ctgcgaaaag cgcgcaagtc acggctgcag ccgtatcata 216420
atgctgatag ccgttaaggg agaccgctaa tgccggaaag ccgagatgac gaccttccat 216480
cgccgcggcg acagtaccg aatagatcac atcatcgccc agattcggac ccgcgttaat 216540

-141-

accggaaacg acaatatccg gacgcggacg cattaaggca ttaacgcca gatagacgca 216600
atcggtcggc gtccccatct gtacagcgat atcgccatta tcaaaggtaa aagtacgaag 216660
cgaagattcc agcgtgaggg aattagacgc gccgctgcgg ttacgatccg gggctacgac 216720
ctgtacatca gaaaactcac gcagcgcttt cgccagcggt tgtataccgg gcgcgtgaac 216780
ccogtcacog ttactcagca atatgcgcat aatcacccat tgtgttgatc agttccctta 216840
ctacgctggt ggcaaaactg cctgcgggca gccagaaacg taactcgacg gtaacgtcat 216900
cccaccagtt ccagcttaat tgttgcggtat aaagcagcat cgctctgcgc gacgcctcta 216960
ctttttcgcg cagcaacagc gattgcaaca cggtttctctg ggcaatggca tcttgctcaa 217020
acgccagcgc cgcacgctgt gttccccact ctccgctgcc cggcaacgac gctgtaatca 217080
tcagctcttt ttcgtctacc cggcgtgca attcaggcag ttcttcagat gtcgcgacga 217140
accagcttcc acgccccgct aattgtagcg catcgccgtc aacaacttga ttaaagtctg 217200
gtttcttcag ccgctggtga acaatttgat taaacaacgc gctacgcgcc gccgacaacc 217260
aaaaactgcg tttattgca tcgcgcaccg gcgcgttact ttgcgccag cgcagcgcgc 217320
cctgcaagtt gctgccgcca atgccgaatc gttgtgcgcc aaaatagttc ggcacgcgc 217380
catcgcaat cgcctgcaat cgtgtttcga catcgcgcg atcgcttatt tcacgcaata 217440
ccagcgtaaa ggcattgcct ttcagcgcgc cttaacgcag cttacgcttg tgacgcgcgt 217500
attccagtac tttacaacct tccagctgaa aggcgctgaa atcgggcatc tctttcccg 217560
gcacgcgcgc gcacagccac tgctcggtaa cggcgtgttt atctttttgc ccggcaaagc 217620
tcacttcgcg agcgtgaatt ttcaggaatt tcgccagcac gtcagcgaca aaacgggtat 217680
tgcaaccgtt tttcaaaata cgcagcagaa tgtgtctgcc ttcaccatcc ggcgtaaagc 217740
ctaaatcttc aaccaccaca aaatcttccg gattcgcttt cagcaatccg ctaccttgtg 217800
gttttcctg cagccaggtg agattgtcaa actctgtcat ttcgccgct tcatcagcaa 217860
cgccaccgct tcgcaggcaa tgccttctcc gcgtccggt aatccgagct tttcogtctg 217920
cgctgccttc aggttaacat catccatatg gcagccgaga tcttcggcga taaagacgcg 217980
catttgcgga atatgcggca gcattttcgg cgctgcgca ataatggtga catccacgtt 218040
gccgaggggtg tatcccttgg cctgaatacg acgccaggct tcacgcagta gttcgcggct 218100
atccgctccc ttaaagtcgc gatcggtatc cgggaagagc ttgccgatat cgccaagcgc 218160
cgccgcgccc agcagcgcat cggtcagcgc atgtaacgcc acatcgccat cggaatgcgc 218220
caatagccct ttttcataag ggatacgcac gccgccaata ataatcggcc cttctccgcc 218280

aaacgcgtgt acgtcaaaac cgtgtccaat tcgcattatg ctttctcctg gtggatggtt 218340
cgggtcagat aaaattccgc cagcgccaga tcttccggac gggtgacctt gatgttatcc 218400
gcgcgacctt ctaccagcgc cggatgaaaa ccacaatact ccagcgctga cgcctcgctc 218460
gtgatggctc cgccttcatt cagcgcacgc gtcagacaat cgtgcaagag ttcgcggggg 218520
aaaaactgcg gggtgagcgc gtgccataaa tcggcgcgct ctacggtatg ggcaatagcg 218580
tttttccccg gttcgccgcg tttcatggtg tcgcgcaccg gactggcgag aataccgcgc 218640
acccggtgtt tttcgctgat ggccagtaac cgcgcaaggt catcctgatg caaacagggt 218700
cttgccgcgt cgtgcaccag caccactgc gcccttgcaa cggcctgtaa cccggccaaa 218760
acggaatcag cgcgttcgtt gccgccatcc acaacggtga tttgcggatg attcgccagc 218820
ggaagtggg caaagcgatg atcgccaggg ctgatagcaa taacaacgcg tgtcacccga 218880
ggatgcgcca gcagcgcatg aactgagtgc tcagaatgg ttttattacc gattgagaga 218940
tactgcttag gacattctgt ttgcattcgg cggccaaatc cggccgcgg caccacggcg 219000
caaacgtcca ataaagtggc tgccatgtta aatccctgga tggtttatcg atgagtttgc 219060
cccgccgttg ccgcgcgttt tgaggcgtca ggcaccagac gatagaaggt ttcgcccggg 219120
ttggtcatgc taagttcgtt gcgcgcgcgc tctcaatcg cttcctggcc gccattgaga 219180
tcgtcaattt cggcaaaaag ctgatcgtta cgcgctttaa gtttggcgtt tgtcgccctgc 219240
tgcgcgacca catcatcgtt gacgoggcta tagtcatgta tgccgttctt accgaaccac 219300
agcgagtact gtagccagac cagtaaagcc agcaacagca gcgttagttt acccatcctg 219360
ccccctgaaa aacggcatca tcatccata acgtcctctg tgactccaca ttcaggacgg 219420
gattgccgcg acaacgcgg caaatgtacc acatttgccg gatgttacgt ataccgagt 219480
aaggagaaca taatctcatt gttggttacg gtttgaatta tgaccggagg cgcagtgata 219540
accgtctac cctaatagcc atatgaataa cgcgccgaac agcgcgccta cggccagtag 219600
agtaaacadg atgctaaaaa gtattttgcc ctttaccac agatgcaacg caatgccgat 219660
aatcaccgat accggcatta acgcgaggaa aaagggccaa gtatagagga aaaaaaacag 219720
cgtgttaggg ccataaagca gaaaagggat cccaacgcc agcagccatg acacaaagcc 219780
gaccaccgcc cccgaaaatg cactggtggc gtcacgtcg accatgaagg cgtctgacct 219840
tgtgaaagta atgttatggc tattacgc attaaatcct gtaaccttga ccataccggg 219900
catacaagcc cgggtggtgc tcaggatctg ataatatcg gccgtctcag caggtctaata 219960
aattgggaaa ccaaatttgt tactaattgt tcaccattaa gatgaacctg gggcgagtca 220020

ggcgcttcgt aaatggcgtc gataccggta aagttacgca actcgcccgcg gcgcgctttt 220080
ttatacaatc ctttaggatc gcgctgttca cagatagcca gcggcggtatt gacataaatc 220140
tcgataaaac gatcgtggcc gacgcgctct tttaccagtt gccgctcggc gcggtgcgga 220200
gaaataaatg ccgtcaaaac aatcaggcca gcgtccgcca tcagactggc cacttcgcct 220260
accgcgcgaa tattttcctg gcgatcggca tcgctaaagc ctaaatacag gcacaaaccg 220320
tggcgcacat tatcgccatc caacaggtag gtactgacgc cacgctgatg taacgcctct 220380
tccagcgcg gcggccaccgt tgattttccc gaaccggaga gtccggtaaa ccacagcacc 220440
acgccacggg ggcdgtggag ctgttcacga gcggcgacag taacgggatg agagtgccag 220500
accacgttct catcatgcag cgccatgttt atctcccagc aaatctcggg cgtcccagtg 220560
cggaaaatga cggcgtagca ggcattcag ctccagctca aacgcactgt attccacggg 220620
cggcgctcgt ccgcggtcat ccagttccc caccatgcca gcacccacgg taacgtaga 220680
aagtcggtcg ataaaaatca gcccgcccgt caccggatgt tgctgataaa tatccagcgc 220740
gagcggctca tcgaatgtca tctctaccag accaataccg tttaacggca ggctctcgac 220800
gtctcgttga gtcagattgt tgatatcaat ctgatagcaa atagcctcga tacgcgcgcg 220860
ggttttctta cccgcaagtt taacgtcgta gctttggccc ggcgccagcg gctgttccgc 220920
catccatacc acatcgatcg cggcggtgcc cgcagggtgc agcgtctcgt ttgccgccag 220980
cagcagatcg ccgcggctaa tatcaatgtc gtcgttgagt accagggtaa tggcttcgcc 221040
cgcacagact tcttctttgt cgccatcaaa agtgacgata cgcgccacgc tggattccac 221100
gccggacggc agcactttta tgcgctctcc gactttgacg ctaccagacg ccagagtgcc 221160
ggcatacccc cgaaaatcag ggttcgggcg attgacgtat tgtactggaa agcgcacg 221220
ctgacgggtct accgcacgct gtatgtctac cgtttccagg acttccaaca gcgtcgggcc 221280
gctgtaccag cgcatattgg cgctctgcgc ggcgacatta tccccttcca acgccgaaag 221340
cgggacaaaag cgaatgtcca gatcgcccg caactgttca gcaaaggcca ggtaatcttc 221400
gcgaatacgg gcgaaggctc cttcgcggtg gtcaacgaga tccattttgt tgattgccac 221460
caccagggtg ttgatcccca acagagtggg gataaagcta tggcgacgcg tctgatccag 221520
cacgccttta cgcgcgtcga tcagtaggat cgccagatcg cagggtggacg ctccggctcg 221580
catattacgg gtatattgtt catggcccgg cgtgtcggcg ataataaatt ttcgtttttc 221640
cgtggagaaa tagcgtacg cgacgtcaat agtaatgccc tgctcacgct cggcctgcag 221700
cccatctacc agcagcgcca gatcgagttt ttctccctgc gtgccatgac gtttactgtc 221760

ggcgcttcgt aaatggcgctc gataccggta aagttacgca actcgcccg cgcgcgtttt 220080
ttataacaatc ctttaggatac gcgctgttca cagatagcca gcggcggtatt gacataaatc 220140
tcgataaaac gatcgtaggc gacgcgctct tttaccagtt gccgctcggc gcggtgcgga 220200
gaaataaatg ccgtcaaaac aatcaggcca gcgtccgcca tcagactggc cacttcgcct 220260
acccgccgaa ttttttcctg gcgatcggca tcgctaaagc ctaaatacag gcacaaaccg 220320
tggcgcacat tatcgccatc caacaggtag gtactgacgc cagcgtgatg taacgcctct 220380
tccagcgcgc cggccaccgt tgattttccc gaaccggaga gtccggtaaa ccacagcacc 220440
acgccacggg ggccgtggag ctgttcacga gcggcgacag taacgggatg agagtgccag 220500
accacgttct catcatgcag cgccatgttt atctcccagc aaatctcggg cgtcccagtg 220560
cggaaaatga cggcgtagca gcgcattcag ctccagctca aacgcactgt attccacggg 220620
cggcgctcgt ccgcgttcat ccagttcccg caccatgcca gcacccacgg taacgttaga 220680
aagtcggctg ataaaaatca gcccgcctgt caccggattt tgctgataaa tatccagcgc 220740
gagcggctca tcgaatgtca tctctaccag accaataccg tttaacggca ggctctcgac 220800
gtctcgttga gtcagattgt tgatatcaat ctgatagcaa atagcctcga taacgcgcgc 220860
ggttttctta cccgcaagtt taacgtcgta gctttggccc ggccgcagcg gctgttccgc 220920
catccatacc acatcgatcg cggcgtgccg cgcaggtgcc agcgtctcgt ttgcccag 220980
cagcagatcg ccgcggctaa tatcaatgtc gtcgttgagt accagggtaa tggcttcgcc 221040
cgcacagact tcttctttgt cgccatcaaa agtgacgata cgcgccacgc tggattccac 221100
gccggacggc agcactttaa tgcgctctcc gactttgacg ctaccagacg ccagagtgcc 221160
ggcatacccc cgaaaatcag ggttcgggcg attgacgtat tgtactggaa agcgcacg 221220
ctgacggtct accgcaogct gtatgtctac cgtttccagg acttccaaca gcgtcgggcc 221280
gctgtaccag cgcataattgg cgctctgcgc ggccgacatta tccccttcca acgccgaaag 221340
cgggacaaaag cgaatgtoca gatcgcccgg caactgttca gcaaaggta ggtaatcttc 221400
gcgaatacgg gcgaaggctc cttcgcggtg gtcaacgaga tccattttgt tgattgccac 221460
caccaggtgt ttgatcccca acagagtggg gataaagcta tggcgacgcg tctgatccag 221520
cacgccttta cgcgcgtcga tcagtaggat cgccagatcg caggtggacg ctccggtcgc 221580
catattacgg gtatattgtt catggcccgg cgtgtcggcg ataataaatt ttcgtttttc 221640
cgtggagaaa tagcggtagc cgacgtcaat agtaatgcc tgctcacgct cggcctgcag 221700
cccatctacc agcagcgcca gatcgagttt ttctccctgc gtgccatgac gtttactgtc 221760

-144-

attatgcaga gaagagagct gatcttcata aatttgcagg gtatcgtgca gcaaacgacc 221820
tatcagcgta cttttaccgt catcaacgct gccacagggt aaaaaacgca gcaggctttt 221880
gtgttggttg gcaatcatcc aggcttcgac gccgccttca ctggcgattt gttgtgcaag 221940
tatgggtgttc atggcggttc cttagaaata ccctgacgt tttttaagct ccacgaccc 222000
cgctgatcg cggtaaatca tcctccctg gcgctcgctg gtggtagaaa ccagcatctc 222060
ttcgataatt tccggcagcg tttgcgcgtg ggattccacc gcccgggtga gcggccaaca 222120
gccaagtgtg cggaagcgca ccacctttt tttgatgact tcgccagggt ggaggctgat 222180
acgatcgta tccaccatca tcaacatgcc atcacgttcc agaaccgggc gttcagcagc 222240
caaatacagc ggcacgatgt cgatgttttc cagccagatg tattgccaga taccctgctc 222300
tgtccagttg gagagcggga agacgcgtat actttcgcct ttattaatct gaccgttata 222360
gttacgccac aactctggcc gctgattttt cgggtcccag cgatggaaac ggtcacgaaa 222420
ggagtaaata cgttcttttc cgcggtattt ttcctcatcg cgccgtgcgc cgccgaacgc 222480
ggcatcaaaa ccgtacttat tcagcgctg ctttaaccct tcggttttca taatgtcagt 222540
gtgttttagcg ctaccgtgaa cgaacggatt gatgccatc gccacgcctt ctggattttt 222600
atgtaccagc aattcgcagc cgtatgcgtt ggcggtacga tcgcgaaagg cgtacatctc 222660
acggaatttc caaccgttat caacgtgcaa tagcgggaac ggtaacgtac ccggataaaa 222720
cgcttacgc gccagatgca gcatgacgct ggagtcttta ccaatggagt acagcatgac 222780
cggattagcg aattccgctg ctacttcacg gataatgtgg atactttccg cctccagttg 222840
ccgcagggtg gtgagtcgtt tttgatccat aaccgttctt ttgcaatacc gttttttgct 222900
aaacatttcg attacacgac tataggagc gcgggagagt gaatgaaatg acgaattgga 222960
atgagtagtt cttcaaagga ataacgcggc caaaaacca atatcaaaa atgcttaacg 223020
taccggattg ccagcattta ggagcaaag aaattgtatt aacacgatcg cggtttcata 223080
ctagccccgt aaaattttgt tctgtattta aggactcatt atgttttccg caacgcgccg 223140
ctttgccgtc attctggcgc tcggcgtagg ctttatcctt cctgcacaag cagcatcacc 223200
agggcctggt gaaatagcga atactcaggc acgacatata gccacctttt tccccgggag 223260
aatgactggc tccccgcgc agatgttgct tgccgattat ttacgccaac aatttaccga 223320
gatgggatac caaagcgata ttcgaacgtt taatagccga tttatttata ccacgaagga 223380
taatcgcaaa aactggcata acgtgacggg cagtacggct atcgccgcc atgaagggcg 223440
cgtgccgcag cagatcatca ttatggcgca tctggatacc tacgctccgc agagcgatgc 223500

tgatgtcgat gccaatctgg gcggtttaac gttacagga atggatgata atgccgcggg 223560
attaggcggt atgctggaac tggcggcgcg tctgaaagat ataccgaccc attatgggat 223620
tcgttttata gccaccagcg gggaagaaga gggaaagcta ggcgcggaat atttactcaa 223680
acgaatgagt gacgctgaga agaaaaatac gctgctggtg attaattctca ataactgat 223740
tgttggggac aagctctatt ttaatagcgg gaaaaatacg ccggaagcgg tgcgtacact 223800
gacccgcgat cgggcattag cgattgcgcg ccgttatggc atcgccgcca acaccaatcc 223860
gggacgcaat ccattctacc ccaaaggaac gggttgctgt aatgatgcgg aggttttcga 223920
taaagcggga atatcggtgc tttctgttga ggcgacgaac tggaatctgg gtaaaaaaga 223980
cggataccag caacgtgtga aaaatgcata cttcccgaac ggcaatagct ggcacgacgt 224040
acggcttgat aatcaacagc atatagacaa ggcgctgcca gggcggattg agcgccgtag 224100
ccgcgatgta gtgcggataa tgctgccgtt ggtaaaagag ctggcgaagg cggaaaaaac 224160
gtcctgatat gctggtgaaa cgtgtttatc cccgctggcg cggggaacac ggacagcaac 224220
ccgtgtcga tatcagacag atcggtttat ccccgctggc gcggggaaca cacgcgaatc 224280
gccaatcgcc gccgcgtgaa ttgcggttta tcccgcgtgg cgcggggaac acccacgatg 224340
tatgccgacc gtgattttta ccgcgggttt atcccgcgtg gcgcggggaa cacagatacg 224400
cctttacgtc gccctctttg gcgcgcggtt tatcccgcgt ggcgcgggga aactaaaaac 224460
accggttgcg caacctccgc ggggatcggg ttatcccgcg tggcgcgggg atcggtttat 224520
ccccgcgtggc gcggggatcg gtttatcccc gctggcgcgg ggaacactct aaatctaccc 224580
aattgaattt aaatactttt ttagcgcaca aaaaaccac caacttttcc taatttttaa 224640
agatctctaa cttattgatt ttcaacaggt agaaacgaca ccaatcgag tccatcaaga 224700
tctaccgga tacgtcgatt tacacaaaaa gtctgaaact caaacctga ttctgtattt 224760
gtcgcccacg ccataacaac atttccctca tctgccagaa cggaacactg ttgccatata 224820
atctcgcgga tctttgcgga aacatcacca acatacacac cagctcgaat ttccagtaac 224880
cagacggcca gcctcccccg cagacgagga ggaacatttt cggtaacgac aaccagcata 224940
ctcatcgta ggtactccga tgaccggaat ctccaacgc aacaggaaga gggatcgcta 225000
tggggtgtga atcttcagga ggtaacggcg gttgaatttc ccctgccgag agaacatctt 225060
caataagagg aatcaatttc gccaatgttt ttccactgag gaagatatcc cggcaggcaa 225120
tacggacatc acgatcgggc tcggcaggat tacgtcgcgc aatttcaaata gctttcggtg 225180
caacgatctc aaattttaatg atatcggaac tatcatagac aaaagaaagc ggcttgccgg 225240

tgtgcacaaa tccaatcgcg ggcgcataatc cggcagccag tattgccgcc tccgttacgc 225300
catagaggca ggaggttgcc gagctgatac actgattaat gacatcgctt ttctcccagt 225360
ctttcggatc gtagcgacgt ccctgccatt tcacgccata ctgcttagca agtagtgcat 225420
aggttgcccc cacacggctc ccctcaatac' cacgcaattg atctacagaa cgacggctcg 225480
gcgcgggttc gccaaaacgt aattcaaaca ttttaacgcac gaccttcagc cgcaaattctt 225540
catccagtgc aagtttcgcc tgataaagca atttgtcggc acgggcacca ccaggctgcc 225600
ccgaagcgta aacgcgtacg cccgcttccc cccccacac cagtaacgta cccaccgttg 225660
ccgcaagtcg cacggcggca tgggaaaccc gcgtccccgg ttccagcatg atgcaggcca 225720
ccgatccaac aggaatatgg gtacgtacac ccgttttatc gataagcaca aacgcaccgt 225780
cgatcacatc aatttgtccg tactggagaa atatcatcga aacacggtct ttcaacggga 225840
tgggattcag cggcagccag ctcatcagcg tttccttttt accatcagca ttccgcagcc 225900
cagcgcttta cttttaccta atccggaaaa taaagcctgt ttaaacagtg ctgcatcggt 225960
gatacagagc gcaccgctaa aatcaacgct actgaaagtg attggggttt cctggtcttt 226020
acggacaaaa cgatgttgct gatacgcttg cacgcatcca caatgcgcct gcaattcact 226080
gtactcgtca ccagcccaca tagcgaaatc atcaggttcc ggtgcaatca accggaaacc 226140
atgctgctgc cttgttggt ccagccacgc ctgcgcggcc tgctgttgaa gctcccacca 226200
ccgttctttc tccacaccat tcgccttcgc ctgatgtttc gcgttcatca tcacgtcact 226260
gcgcttaccg ttacgggtta tcacogggtt agctogtagt tgaaaatcaa gctcaagacc 226320
atttgtcagt tgcggattaa atagtgttggt ttcaataaga aacagggagt gctgcaataa 226380
cggcggtatt gccgagagca taaaaaagcc gccatgcgcc tcttcgcgaa acagaaactg 226440
acgcaattcc tgttccggaa agagctgcca taaccactgg tggctggcat aaggcctggc 226500
tgaattccac tttgccaaca tctccggtcg caaattatta aaccggagtt gaatacgaga 226560
aagatacatt atgttctctc ctgcaacggc ccattgaagc ggggtgtagc gccaaactgc 226620
cagcgttggc ggctaactgg ctggttattg ctatgctgct tttgttgcca gaccagactc 226680
tcctcatcag gatcatccca ataacaaata ccctcacgca gggtaaattcc acttaattcc 226740
gctgcggaaa tctcctccac agcatgagtg aatacctctt ttaaggtgcc ggtcattaaa 226800
cgcgccgcta acggtaacgc cagcgggcag gattttctcc ccagatagag cggaatgc 226860
gggtgtcagca gcgcctctcg caattcgcta agcgaatatg gtgcatcagg cgtggcgctt 226920
attgccacat gccagtagcc atcgcagcga tactctcgct gcgagataag cgttcccact 226980

tcacccgacg cgagagtcag ttcaccccg cgcggtgtaat aacgatactt tttgttttct 227040
cgcgggcgcg taaccgtgtg ataatcccg aaccagcgat cttgtgaagc caacgcgtgc 227100
accgccagat gatagtgccg gttaaagtta ttcagcccg cttcttcgtc gcgacgaatt 227160
cctaacgctg cggcaagcag acccaatagc gcagagcgcg tgggaaccgt agctgagtgg 227220
cgaatctcgc cagacgcttc ctccccccac gacgccagcg gcgcataaag ctgaaaaacc 227280
agatattcct tcattattca tccttactgg ctaacaaagg ccagtaattc cgccagagat 227340
cccgtacctt cctgaacgtt caactcacga taatcgctctg cacagtttcc atatacgcta 227400
tcgaagctgg cgcgctgctg ttttaaaccg gttattgccg caggaatttg atcggtatcg 227460
cgtaccggct ggaaaaatgc cgccgccaga gaacgcgggtt gtttttgccc gacttcggcc 227520
aacgcatagg tggcataggc acgagaagcg aagctgtttt gtttaccggt tggcgagacg 227580
gttaacgctg tttcagttag tgccgcgata gtacgcttcg ccagttcttc gttaccacc 227640
aggttttcca ccagcagatc gcggctgata cagacatagg tatagaaaag cgccgaggca 227700
aaaccctgct cgcccatatg cccggaacct gogtcttcct ctttattatt cagatcgta 227760
acggcggtga aaaaatcaga ctcaacggtc acggcaactta cgccaacgc atgggatacc 227820
tgacaagcag cctcgacgtt gaactcaggc gatgacgcca gcatacggc aaacagcgcc 227880
atatctacgc tacgctgttc tttgcgcaga agcttcaactt cttcatcggt aggttcgcgt 227940
ttgtcggcaa ttagcgtatc aaccagttgt ttaatcaaac taatttcatg gttactgacg 228000
tgaacgatct gctcaatttc gagatTTTTT tccggtttcg catctttatc acttttaagc 228060
ttgccaaatt gcttagcgat taactcagac gaactcttag caattttttc ttcaattccg 228120
gcatctttca tcggacgata aacataatcc acgccaattc gacgagtacg cttaccata 228180
aagccatcca ttgccgcttc aaaagtttcc gacacccgcc aggcacgctt cagactttgc 228240
gacgatacgc gtaaacgctc aactcctccc ataaacgcgg tcttcggtct gccagactca 228300
tcacgattca ggtagcggg cgcataagca gtcaataaat gcagttgaat aaaagttgtc 228360
attatcaaat ccttctaaaa atgattattt gccacgcgac gtggaaagat attcggtcgc 228420
ccaacggatg cgacttcgtt caaaggggtt acggaattcc ggctgatggg tttcgcgtcg 228480
ttgccactct tccatccaca ggaaaatgcc atcggcaagt gaaagaacat tcacccctc 228540
cgtaccgcga atcttcaactg cctgaatcaa caactggcaa aatgtttccg ggtcggacgc 228600
tttttgcaaa cgttcaaaac gcagaccaga aacgcacgac gtggaacctt taagcttttc 228660
ccctaactgc gcagcgaaac taatattctc cttatgactc ttaatatgca cagcgacgct 228720

gacaaacaga gccagagcca tctcatcaag aggttgcagt cgcataatggt taagcagagc 228780
ctggcgggaga gcgatcatgtc cttcacatat cattacgcca tatggcggcg ccattctttt 228840
caactcagcc cgccaggcgc gaccgttgac tegtttacca tccttgcgct cataacgctc 228900
agacagcgta gcaaaccagt caagtagtgc cttctgcgca tcgggggtgga gaattctgca 228960
taacactgct gtattgctat tcagcatatt tggcttcctt ctgttattcg accagcgcca 229020
acacatcctt gcgcgcttta tgtttacgat agctgctggc taaatcctgt cgggccgtca 229080
gctggcgctg caggatatcg tccgggcagt cgggggttggc cagggcacatca cggtcaaaaa 229140
cgtgaaatag atagtgtgct aattccgcct cccactgact tactgcgtga cgagtctgtg 229200
tatectgccg aagcggatcg acagccagcg cctcttgcaa cgtccgaaaa gcgggttcgg 229260
tttcttgcca gaaggcgata tccaccatac taaaatccat tttggcttct ttcggacaat 229320
cgaatttggtc gctctttaac gcgttcgta acagcgacag cgactcacta gccagcacca 229380
gcacaatggt aagcgcagcg agaaattgct cttcgtgcga aacgctaata agcggaattc 229440
gggtgctgata ccagcagcgg accttggcct tattcatatc ccaggcaaag caccacaggc 229500
tcattttggt ccgctgacca gcggcacgaa cgacctttgc aggctgcatt ttgttgaact 229560
tatectcacg attgagcatc agccccaacc agtctttata acttaaccgc cccggctgcc 229620
ctttaaacgc cagccagggt gcggatggat ctttcaatgc ctgccgatat ggggagaagg 229680
gatgtagcca actgtcgtac tgaacgccat aatttttact acgcatttgc agtagcagtg 229740
attcgtgatg ctccccgcac aaatcgcaga tacctgccac agtgtgggtg aaatccagtt 229800
ctatgcgccg cggcatcccc cagtaggctt gcaaggggtg cgcatatcc ggtgtgacca 229860
cattccccgc ttttctgctg gttttcgtcg gcgcaagcca gggaaaaatg agtggatgct 229920
gtgtaacatt cggcggctct tcctgcggca aaacgttaag ccaaagtttt ttccatagtg 229980
gatatttatc ttcttctgc ggtaccacca gcgtagtcag cggaccaccg ccgcgcaccc 230040
ctaccgggta acccgccccg ccggcagggtg aattggtttg aatcgcaaat agcgtatcg 230100
ccgcgcagtg aggacatatt tgttctacgt tgccacgttt tacaaaatga tctttattga 230160
gcttgagcgc attcccgccc ggcgcaccca ccagcagccc ggcaatagaa ccatattcac 230220
tatcgagagg atcaaaactt tgcaggaagg aaggtttttg ctcgccgaac tgtagagcca 230280
gagaaatcgt atttaacgcc ttctccatt gttcgaattc gatactttca tgccagatat 230340
ctgcccatc ttctttatct tccggcgcca cggtacattg taaaatacca atcagcattt 230400
gccatgccgc cccctgaaag tcagcccgag gataggcaag atcctgaatg cggttatcca 230460

gaagatcgcg taatgatatt ttctttttat cgccgtttga gaatatgaag ggaagccatt 230520
tctcttttgt taaatccata cctttactcc tgcagggcta tttattaagc caatttgga 230580
tattacctac ctataggtag attccgtcct gaggtatctc ttaaatactg tcatcgagat 230640
tatactacat tttctcgaag acgaaaatat aaataaaaag tagatacagt cttaaatacag 230700
actatgtatt ttttatagtt atctgttata ttttaatacgt tccctaaaat tatgggataa 230760
accgtagatg cagtcttaat agcgcagcgt tccccgcgcc agcggggata acctaatacca 230820
gacaaaaaaaa ctggccaatt acccgatatcc caattttatta tggatttcat tgtaatcccc 230880
ctcctacaga aaaaagatga cacagataga atatctggac tacctctgct attgggggaa 230940
aacagataaa tcaacagaaa acataacctg taattatcat ttactggcat accattgcct 231000
ggacgttgct gcatgcgggg aatacataat aaaaaacaat acattcaatt catgtaatat 231060
attaaaagaa tgtaatatct caggtacaaa tgcagaaaac tggataatct ggtttcttgc 231120
cagccacgat atcggaataat tcgccagagg atttcaaaaa tacgccgaat tcccagactc 231180
tcccttagtc tctcccatta gcggtgtttc cgcatttgag agacatgatt ccttaggctt 231240
ctatttatgg ggtaaattat ttgaagcgtg gagttcaggt agtaatgaaa ttatcgagg 231300
cattgaacca gaaaatcgcg ctaggtttga aagcgcttta aatagctgga tgcttattag 231360
caccgggcac catggcatcc cgccggacac catgaaaaat agaagctcgc tggcattcac 231420
cgatgaagac attgtcgcag caacgcatta tctggaagca ttaagtgaat tattcccttt 231480
cactctacct caggaatgga aaaccaaagc agggagaaaa tgtttaaaac agcacagttg 231540
gtttttcgct gggcttgtca cctcgcga ctggatgggc tcggatgaaa gccagtttcc 231600
actgctcagc agcgccatgc cattgaaaga ttattggcct ctcgcttggtg aaaaagccca 231660
acaggccatc ctccgaatgc cgccgttatc tcagcacagc cattatcaag atcaccgggc 231720
attatttccg ttcattcaga cgctcacccc tcttcagcaa cgagcaagcg aactggatat 231780
ttcagcacc cgtgcacagc tgggtgtcct ggaagacgtt accggagcag gcaaaacaga 231840
ggccgcactg attctgactc accgcttaat gtcagccaat aaaggccacg gtctctacgt 231900
tggttgccg acaatggcca ccgcaaagc catgtatcag cgctggcat cggcttatca 231960
tgcgctattt accgatgagt ccaggccatc gctcatcctg gcacacggtg ggcgagaaat 232020
gtcggactct ttccgacaat ccatctggca gccaacagaa aatatactg aagattatgc 232080
ccgtgatgat ggcaacgcga ctactgagt ccataacctg tttgcagatt caccgaaaaa 232140
agcgctgctg gcggaagtcg gcgtaggtac gctggatcaa ctcttaatgg cggatgatgcc 232200

ttttcgccat caatcgctcc gattgctagg gatgcgcgac aaaatcctgc tgctggatga 232260
agtgcacgcc tatgatggtt atatggttaa attgctggaa ggtttattgc gcttccatgc 232320
cgcccagggc ggtagcgcta ttattctgag cgccactctt cccgccgctt tacgggaaaa 232380
attacttaat gcgttttagcg atggcgcgga atttatgagc gctgggtgga gcgataacgc 232440
gggttatcca tggttaagcc acctcacttc ctccggtctg ttagagcaac cactggccac 232500
acgtcccgaa gtccaaagga ctgtagccgt taattggata cagcagcgcc aggaagcact 232560
ggacattatt tatcgcgttg tggcaaccgg acagtgcatt tgttggatcc gcaacacggt 232620
tgatgatgcg ctggacactt accagcagtt gctacacgag ggaatcgctc cagagcagga 232680
tcttttgctt ttccacagcc gttttgcttt tatcgatcgt attgctattg aaaataaaac 232740
gttaaaactgg tttggtaaca atgccccgt ttctgaacga cgtggtaagg tattaatcgc 232800
cacacaagtc gttgaacaaa gtctcgatct ggactttgac tggatgatca ccgatctggc 232860
gccgattgat ttattgatcc agcgcgccgg tcgcctgcaa cgccatatcc gcgatgccca 232920
tgggcaacga aaatctacgc ttccggatga acgccagcca ccagtattgc atatttctgg 232980
cccctcactg gcaggagcag gcagaagagg gctgggtggg gcaagagcta aaaggtaccg 233040
gctttgttta caccgatcat gcctgcctgt ggcgtaacca ggcgctgctg cgtcaacatg 233100
gtgagatccg tatgccgat aatgccagag cactcggtga cggcgataac gagcagaaaa 233160
ttgctgcgcc agcaggcttg cagacgatct ctgacgttgc ctttggcaaa gtccttagcc 233220
aacgttcagt ggctgcgcaa aatttattac gttacgatct cggttacgat cgagaagcca 233280
gcgacttttt atgggataaa gatagagaat tttctaccog tctgggtgaa gagagtgttg 233340
atgtttatct cgccagaaaa gacattgatg gacagctacg cccttttagtt gatgaaatag 233400
atttctgctg ggaaaaaagt cgcttatccg tccgaaaatc atggtggcaa aaaaattctg 233460
gtacattcca atgtccagat gaggaacat tagcctgttt cagaaaacgc caccatcgcc 233520
cttccggaca gattgtgctg gtatctgata ccggagaagc tagctattac agtaaacggt 233580
ttggattggt tggataacgg gtattattct aactccgttg tatagagaag ttattacatt 233640
agattcacta aaatctttgt agcttctcta tctatatcca tttccatgaa tacccttaat 233700
taaatttaac tacttcattt catcatactt tatctctcag catcaacacc atccatgaca 233760
aaccaaaatt ttaaaaaaac gaccatttgc ggcgaaatcat ctacctttg tctgaattat 233820
cgtcaccaca aaggattacc aaccataaat gtgctgtatt gataatgccg ttcacattct 233880
ctcctgtagt aaaccttgtc tgtttaataa aaaagagcga attgaacgat atattttact 233940

ccggatattg aataatataa atttgaagga aaatattatg ccagtcactt taagcttcgg 234000
taatcatcaa aattatacgc ttaatgaaag tcggcttgct catctgttaa gcgcagataa 234060
agaaaaagca atccatatgg ggggctggga taaagtccag gatcatttta gagcggaaaa 234120
aaaggaccat gcgctggaag tggtacactc catcattcac gggcagggcc gtggtgaacc 234180
tgagagatg gaagttaacg tagaggatat caataaaatt tacgccttta aacggctaca 234240
acatctggcc tgcccggctc atcaggatct gtttactatc aagatggacg cttctcagac 234300
acaattttta cttatggctg gcgacacggt gatcagccaa agcaatatta aggacatcct 234360
caatatatca gatgatgcag tgatagaatc tatgagtaga gaagagagac agttattttt 234420
acaaatatgc gaggtgattg gtgcgaagat gacctggcac ccggaattac ttcaggagtc 234480
gatttctact ctacgaaaag aagtgcggg caatgcacaa atcaaagcgg cggtttatga 234540
gatgatgcgt cccgcagagg ctccagacca ccgcttgctc gaatggcagg actcgcttac 234600
tgaagatgaa aaatcgatgc tggcctgtat taatgccgtt aactttgagc ctacaactca 234660
gttttgcaaa ataggttatc aggaggtaca aggtgaagtc gcttttagca tgatgcatcc 234720
gtgcatctcc tatttactac atacctatc accgtttgca gagtttaaac caacaaattc 234780
cggtttttta aaaaaactta atcaggatta taacgactac catgcaaaaa aaatgtttat 234840
tgatgtaatt cttgaaaagc tatacttaac gcatgaacgt tctttgcaca ttggtaaaga 234900
tggtgacgt cgtaatatat tactgacata aagatagcca gtaatataac caatttaaaa 234960
tccggctgcc tgccggattt tacatagcag caagtataat cataccgctt aaggacaatt 235020
acccttcacg cagcccgac tcacgtttca gtccgaagaa gcgtgtctct tcttccgcca 235080
taccggctc ccatttgcg gtggtgtgcg tatcgccac cgacagatag ccctgagccc 235140
acagcggatg gtatttcaga ccgtgctttt gcagatactg gtaaaccgtg cggttatccc 235200
agtcgataat cggtagcact ttaaacacgc cgcgctggat agcgagaacg ggtaaagtgcg 235260
cgcggtacc ggactgctc cgacgcagac ccgcaacca ggtctgcgcg tttaactctt 235320
tgagcgccc gttcatcggc tcgactttgt tgatctcatt gtatttctca atgccctcaa 235380
cgccctgctc ccacagcttg ccgtagcgcg cttcctgcca ggccggactt tcgcccgcgc 235440
ggtaaacttt caggttgagt ttgagtttgt ccgttagctc atcaataaac tgataggttt 235500
ccgggaacaa atagccggtc tcggtgagga tcaccgggat atccgggcga atctggttca 235560
ccaggtgcag gtcaccgcc gcctggatac caaagcttga ggagagcacg tattcgccgg 235620
gcagattttc cagcgcccaa gccacgcgtt cttcggcagt cagcgtttcc agttgagcgt 235680

tggtttccgc caacgccagt acgcgatcga cttttggcag ttcatccaat gcgttgagat 235740
cgagttggga cataagttcc tcaactgtttg ccttgccctga tggcgctgtg cttatcaggc 235800
ctacacagac gccatccggc aattcaggtt attcccagaa atcacgcgcg ggatcgagca 235860
ccggggcgaat gatgcccgcga cgcaccgtaa agtcgcgcga gccttcaccc gcttcacgct 235920
ctttcgccca gcgcccatac agttcatcca gcgaagcctg aatatccggc tcggtgatat 235980
tttcttgata catccgtgga atacgactcc cgatgcggtt gccgccaaga tgcaggttat 236040
aacgaccagg cgctttccct actaagccaa tttccgccag catcgcgoga ccacagccgt 236100
tcgggcagcc ggtcacgcgc atcacgatat gtcacacagg aatgccgtgt tttccagaa 236160
tcgcttccac tttgtcagta aacgacggta ggaaacgctc ggcttccgcc atcgccagcg 236220
ggcaggtcgg gaacgacacg caggccattg agttttcacg ctgcgcgctc accgcattca 236280
tcagcccatg atcgcgcgcc agtttctcga tcttcgcttt ctggctttcc ggcacgctgg 236340
caataatcag gttctgggta gcggtaatac ggaactcgcc ctgatgaatc ttcgcgatct 236400
ccagcaggcc gggtttcagc ggacgccccg gatagtcag gatacgaccg ttttcgataa 236460
acagcgtcag gtgccattta tcatcaatgc ctttcaccca gccaatcctg tcgccagcc 236520
cggtaaatc atacggacga atgggttcaa atgtgatccc cgcgcgacgc tcgacttccg 236580
ctttaaacgt ctccagtcac acacgctcaa ggggtgtattt gggtttggcg tttttacgg 236640
cggtacgggt accccagtcg cgctgcgtag tcaccacgc ttcgccacc gccagggtgt 236700
gctccagcgg cagatagcca aactcgctcg cggtacgagc gtaggttttc ttattaccgt 236760
gctcaataga cagaccgccg cccaccagca ggttaaagcc gaccagcttg ccgttctcgg 236820
caatgccac gaagttcatg tcgttggcgt gcagatcgat atcgttttgc ggcgggatca 236880
ctaccgtgg tttgaactta cgcggcagat aggtctgtcc gaggatcggc tcttcacg 236940
tggtcgccac cttctcctga tcgagccaga tctccgcata cgcacgagt cgcggcagca 237000
gatgttcgga gatcttcttc gccattcgt aggttccgc gtgcagctcg gactcatacg 237060
ggtagaggt acacagcacg ttacggttca tatcggtggc ggtcgccagc gcgtccagcc 237120
ccaccgaatg cagcatctgg tgcaccggct taacgttctt cttcagaata ccgtggaact 237180
ggaaggtctg acggttggc agacggatac tgccataaat cgtgttatcc gccgcgaatt 237240
tatcgatcgc ctgccattgc gtcgtagtaa tcacccgcc cggcaggcgg cagcgcagca 237300
gcatggcgtg gcgcggctcc agcttctcgc ccgcacgctc ggcgcaata tcgcggtcat 237360
cctgctgata catgccatga aagcgtatta gcaggaagtt gtcgccttta aaaccgccg 237420

tgagaccgtc gttcagatct tccgcaatgg taccgcgcag gtagttgctt tccagcttca 237480
tgcgctcggc atcggacagt ttaccttcga ccaccagtgg gcctggatat ttttcgctca 237540
ttagtagaca tctcgtctgat aacggcgctc tacgcgcagc tcaacttaaatt attcatctgc 237600
cgattcagagg tccataccgc cgaattcagc gatcacttcc agcaatgctt tttcgacatc 237660
tgcgggccatg cgctggcgt cgccgcagac ataaatgtgg gcgccatcat tgatccagcg 237720
ccacagctcc gcgccctgtt cagcgagctt gtcttgtacg taaatTTTTT ctttttgatc 237780
gcgggaccag gcgagatcga tacggcttaa cagtccctct ttcacgtagc gctgccactc 237840
cacctgatag aggaaatctt cggtaaagtg cgggttgccg aagaacagcc agttcttgcc 237900
ttccgcgcca tcggcggcac gctgttgcat aaaggcgcg aacggcgcg tgccggtgcc 237960
ggggccaatc atgatcaccg gcgtttgctg gttcgtctggc aggcggaagt tatcgttatg 238020
ctcaataaag acgcgaactt cgccctcttc ttccacgcgg tcggcgagga agctggaagc 238080
gccaccgcg cgggcgcggc cttcgatatc atagcgaacc acgccaacgg tgatatgcac 238140
ttcactctcc acttcagcct gtgcggaggc gatggagtac agacgcggcg tcagcgggcg 238200
cagcaggtcg attagcgcct gagcatccag ctgcgccgga gagaaacgca ccatatcaac 238260
gatcggcgtg gtcgcggcgt aatgctggag ctgcgcttg tcaccacta atggcaacag 238320
cgactcactg cgcgtcaggg tcgcgtagtt ctcaacaatg ttggcggtat tcaccgtcag 238380
ctcgaagtgc cactccagcg cttcggcgag cggcagggtt ttaccatcaa ccatcacggg 238440
ctcatcgcct ttcagccaca gcaactcaac cagttccttc accagagcgg gatcgttctg 238500
ataccagacg ccagcgcgat cgcccggtg gtaacgcaga ccggagtcgc ctaaataat 238560
ctcaatatga cgaacgtctt tttccgagtt gcgaccggtg attttctgat tcacggagag 238620
ggtcgcggtc agcggcgcgt ctttggtata ggggctggtg tggatgtcgt ttaccgcgcc 238680
agtagcgacg gattgcgaag gtaccgcgac aggtgcacgg gacttcagaa catcaaccac 238740
gcaggcgcg ccatcgttg cagctgcctg atattcaacg tcagcatcga cacggtcgag 238800
cagacgctca ccgccagtt ccgccagttt gctgtcgaaa tcttttcgg actggcagaa 238860
aaattcataa gaggtgtcgc cgaggctaaa cacggcaaaa gcggtgtttt ctagtctcg 238920
cgcttttttc gagaacagga acttatgcag cgcgacagcc tcttcggcg gtcgccttc 238980
tccctgggtg gacgtcacta tcaccaacag tttttcactg gcaatctgtt tgaatttgta 239040
gtcgccggcg ttcaccagag tcacattaag gttggccgcc agcagatcat cagcgagcg 239100
ttccgccaca cgacgcgat tgccggttg cgaagcggag ataagcgtaa ctcccggcat 239160

cttcccatca ggagcaggcg tgacggcaac agcgctgag cgcggggttca gtaagcccca 239220
aaaaaagccg gagaccagg caagctgttc gggagtaagg tcggttgctg cggcctgaag 239280
gcgcgccagt tgctccgat taagcggaag caaccagtc agtggagccg gtgtcgtcat 239340
gcgtcgttat gttocagtaa gcaaagcgga tctatacaca aaatcattca agttcgctgt 239400
agcccagact gtaagctgat cgcgccccag gagcgtacat aaatacgtga ctggggcgag 239460
taaacgcagt caacacaaat gcggcttgaa ggatgaagtg tataagcgat aaatcccaaa 239520
ctaaggataa gggtaacggt gagaggaata acaattaaag aagggttgga aataacaaat 239580
aaccaaata ga actaacctgt tttagttatc gttattaacg ccaaaatcga tttcataatt 239640
gattgataat tattaatttt tctggaaatt cttaaattaa ttgccggtta caaggcggag 239700
aatggtttta gttaatgata aaaaatgcgc tttccgttac cctacagcgg tttttttatt 239760
gcctgagagt tcatcatgtc caccacgttg tataaagatt tcacctttga agccgctcac 239820
cgctgcctc acgtgcctga agggcataag tgccggccgc tgcacggaca ctcatttatg 239880
gtgcgtctcg agattaccgg tgaagtcgat ccgcataccg gttggattat ggatttcgcg 239940
gatctcaaag cggcgtttaa acctacttac gatcgtcttg atcactacta tctgaatgat 240000
attccaggac tgtccaatcc caccagcgaa gtgctggcaa aatggatttg ggatcagggtt 240060
aagcccgctg tgccgctact gagcgccgtg atggtgaaag agacctgtac agccggctgc 240120
gtctatcgcg gcgaataagg tttattaacg cgtgggctgg atggtaaatt gattccagcc 240180
tatccacacg acgttttata agtgaaaaca ttgccagcg cgcggtgtta aaagcgcagc 240240
acatcaccgg ttgcagggtc ggttatttcc ggtagccaca accgcecca ggccccggtta 240300
cagtgacaac cgcatagttt ttcagggtttt tgttcttgca gaaagcgctt gactcgccac 240360
agcgtgaacg gtgatgcgca gcggagatga aatccgccga taagcgcgta aatccgcttt 240420
ataccggtaa tgttttgaca gtgccggaca atatttgca tccccgatg cccgcatccc 240480
ataatgatga ctaatccttt tgtcgattgg taaatcagta cgccctcatc caaaatagag 240540
tcgggctccg catcgtggcc gccaaaaatg ccgtaggctt caggcgcgac caccggtatt 240600
tcccctgacc agataaagtt ttcgccaatc ggcagggggc cacacgtgta catcattcgg 240660
tagcgtgaat agtcacctc acacgacaat ttttttattt tccgggtaat accgagaaaa 240720
gttattgccg cataacgttc gcgcgcaata ttgggatggc agatgattcg actgttatca 240780
ggaagccacg gcacgccgcc gcaatgatcg taatgaccat gcgaaagcac cacagcagac 240840
acatcggaca ggtcgatccc catcgccgac gcgttttgca taaaactgcc atcagggccg 240900

gtatcgaaca agatcgacgt agactcatcc tcgaccaaca ggcttaatcc tggccggggcc 240960
ttcaacgatt tatccgttcc agctccctta tgatttttoga gcaataccct gatccctaac 241020
gccatggcct tctcctgtat aaaagcctcc ccgggaaaac gcggcctttt tactttacag 241080
gtttgtagca gccattactg gtacacagat tatgattatg caacggctat ccttgttgac 241140
gtggggaata ctgctacacg caaaaattcc agtcgttggc gcacggttta tccccgtgg 241200
cgcggggaac aactaaacg tatatcattg tttataaact actttttatt agcaccacat 241260
tctaccaaca taatagcaac aatttaaatt attaaagaac agctaatttg ctgattttga 241320
tgcaaaaaag ttcatagaat gatTTTTTct ttaaatttac caaaataacg tgatccgtgc 241380
atcgctatgg aaaaatttat cagcgccttt atacactcat cgaaattcac atagagaaaa 241440
taaacaatgc aaggtaatgg atgagtcaca gacggcaacg gcaggccgtc cgtaagatta 241500
ataatgcctc aggcgatatt taaatattta tgcgtttgca tagacagccg ccagttacgc 241560
gcaatacacg tttcaatata cagacgcgtc gcgtcttctt tctggctaata gggctgcaaa 241620
gcaatcacgc gcggtttatc atcgctcaac gtggctaaca gttcatccag cgctcaata 241680
tcacgaactc gcccaacggg atgcttgatt tcattggcgc gctccagcgc ctgggaaagc 241740
acgtcatatc ccccgcgcat attcactttt ggtgaaaccg tgaccaggt attgggcgta 241800
cagcgcactt cgtgcgtccc gctggtttca atctggcaac taaaaccact cttttcaagc 241860
agatcgggta gcggcatgag gtcgtgaata caggggttcgc caccggtgat gacaacgtga 241920
cgcgcggtat agccctgacg attaattact gccagcaagt cttcactgct cgcagcacc 241980
catttgctgc tctcttgggt ttttgccaga atgctgaaca gagacactc ccgatcgtc 242040
agtttatccc aggtatgctt agtatcacac caggcacagc cgaccggaca tccctgtaaa 242100
cgaataaaaa tagcggggac gccggtaaaa taacctcgc cttgtagggg ctggaacatc 242160
tcgttaatcg ggtactgcat agcgttctct gttaagggga taatcgtaa ttattgcaga 242220
tttcgtctgc ccggtcatgc acagcggctg cgtattgaa cagatacaaa aaaaccgcgc 242280
gaagcgggtt tatacgtaa gaggtaaaag caggattacg cctggccttt gatctcttta 242340
cgaccgttgt acggtgcttt ttcgccaga gcttcttoga tacgaatcag ctggttgat 242400
ttagcaacac ggtcagaacg gctcatagaa ccggttttga tctggcctgc agcggtagca 242460
acagccaggt cagcaatggg agcgtcttca gtttcaccag aacggtgaga gatgacagca 242520
gtgtagccag cgtctttcgc catcttgatt gcagccagag tttcggtcag agaaccgatc 242580
tggttgaatt tgatcaggat ggagttagcg atgccttctc cgatgccttc tttcaggatt 242640

ttggtggttg ttacgaacag gtcgtcacca accagctgga ttttgtcgcc cagtactttg 242700
gtctggtatg caaaaccgtc ccagtcagac tcgtccagac catcttcgat ggaaacgatc 242760
gggtactgtt tggtcagttc ttccaggaag tgggtgaatt cttcggaggt gaatgctttg 242820
ttgccttcgc cagccagaac gtattttaccg tctttgtaga attcagatgc tgcgcagtc 242880
atcgccaggg tgatgtcttt accagctcg taaccagccg ctttaaccgc ttcagcgata 242940
acagccagcg cttcagcggtt ggaaccaggt ttcggcgcat agccgccttc gtcaccaca 243000
gcggtgttca tgcctttgcc tttcagcact tttgccaggt gatggaaaac ttcagaacc 243060
atacggatgg cttctttaac cgttttcgcg ccaaccggct ggatcatgaa ttctggatg 243120
tcgacgttgt. tgcagcggtg ctgcgcgcg ttgatgatgt tcatcatcg aaccggcatg 243180
gagtatttgc cggcggtgcc gttcagttca gcaatgtgct cgtacagcg cataccttta 243240
gcggcagcag cagctttggc gttagccaga gagacagcca gaatggcggt tgcaccgaag 243300
ttagatttgt tttcagtacc gtccaggtcg atcatgatgt tgcgatgcc agcctggtct 243360
ttagcgtctt tgccaagaat agcctgagcg atcgggccgt taaccgcgc aacagctttg 243420
gttacgcctt taccaggaa acgggatttg tcgccatcg gcagttccag cgcttcgcg 243480
gaaccagtag aagcacctga cggagccgcc gccataccta cgaaaccacc ttccaggtgt 243540
acttcagctt caacagtcgg gttaccagcg gagtcgatga tttcacgacc gatgacttta 243600
acgattttgg acattaggtt ttctcaagt cactagttaa actaaaactt cagacaaacg 243660
gtgcaccgct gaggggtgcac cgcggttcta acttttttac ttcgcctgac gtttctgatg 243720
ctcgttggcg gctttaaaa agccggcgaa caacggatgt ccatcacgcg gcgtggaagt 243780
aaattccgga tggaactgac aggccacgaa ccacggatga ttcggtacct caatgatctc 243840
gactaactga tcatcacgcg aacggcctgc gacacgcaga cccgctgctt caatttgttt 243900
caacaacata ttgttgactt cgtaacgatg gcgatgacgt tcaacaatcg tcgacgcgcc 243960
gtacaactga cgtaccaggc tgcacgcgt aagctggcac tgctgcgcgc ccaggcgcat 244020
ggtgccgccc agatcgcttt tctcgctacg gacttcaacg ttaccgtctt catcgcgcca 244080
ctcggtaatt aacgccacaa cgggtactt acagtctggc acaaattccg ttgagttggc 244140
gttgtccatg ccggccacgt tacgagcgaa ctcaatcaac gcaacctgca tcccaggca 244200
aatgcccaga taaggaatat tgttttcacg cgcatacgcg gcagtggcga ttttaccttc 244260
aacgccacga tagccgaagc cgcgggggat caggatagcg tccaaatctt tcagaatttc 244320
gacgccgcgc gtttcaacat cttgcgaatc gatcaatttg atgttgacgg taacgcggtt 244380

tttcagacca ccgtgtttca gcgcttcgat caccgactta taggcatccg gcagttcaat 244440
atatttgccg accatgccga tagtcacttc gcctgcgggg ttgcttctt cgtaaatgac 244500
ctgttcccat tcagacaggt tagcttcggg acagttcaag ctgaatcgtt tacaatatata 244560
atcatcaagc ccctgagatt tcaacaggcc tggaatttta taaatggaat cgacatcttt 244620
cattgaaata acggcttttt cgggcacatt acagaacaat gcaatttttg cacgctcgtt 244680
ggcaggaacc gcacggtcgg aacgacaaat cagaatatcg ggctgaatac cgatagacag 244740
cagctctttc acggagtgtt gaggcgggtt agttttcact tcgcccgcag ccgccaggta 244800
aggtaccagc gtcagggtga taaacagcgc gtgttcacga ccgatatcta ccgccaatg 244860
acgaatcgcc tcaagaaacg gcagcgattc gatatcaccg acggtaccgc cgatttccac 244920
cagcaccaca tcgtggcctt cgccaccttc cagcagcgc tctttaatcg cgtagtgat 244980
gtgagggatg acctgtacgg ttgcgccag atagtcgcca cggcgttctt tacgcagaac 245040
gtcggagtag atacggccag tcgtgaagtt gttgcggcga gacatcttg tgccgatgaa 245100
acgctcgtag tgcccaggt ccaggtcggt ttcagcgcgc tcttcagtaa cgaacacttc 245160
ccggtgttg attgggtca tagtaccgg atcgacgttg atgtacggat ccagtttcat 245220
gatggtcacg ttgagaccac gggcttcag aatggctgcg agggaggctg cggcaatgcc 245280
tttaccaga gaggatacga cccgcgcgtt caaaaaata tagttcgttg tcatgcggaa 245340
cctgagaagt taggtttaaa agacgatgga ataaccagga cgggaaagca gtataccga 245400
acatgacctc cgccacaaac tttcattatt octoctcttc gccaggctga cattcacaca 245460
gggagggaga aaatagcccc tttgaggtaa atgtttttga cgtaaatcaa gcgcttggtta 245520
tttaaaaaat cacacaaatc gctcttgacc gcctaaaacc tttagagatc aatttcctgg 245580
cgttttactt cctgccaaac ttcttcatt gtttcagggt ctaccccggt catttccagg 245640
cctctggctg cgacaatacg ttcaacttcg cgaaaacgac gttcaaattt atcgttcgt 245700
ttttgcaaag cgatctccgc tttcgtaoct aaatgacgcg ccatgttgac cgtggcaaag 245760
agcaaatcgc ccatttcttc ttccagttta gcctgatcaa caaccgcctg ccgcgcctcg 245820
aacatcacct catcgatctc ttcatagacc ttatcgacga ccggccccag cgtcgtccag 245880
tcgaagccca cgtttgaaca ccgtttctgg attttttgcg cgcgcattaa ggccggtaag 245940
ctgcgcggaa tatcgtccag cgcggaatgc tgcgcttttt gcgcgcgctc ttccgttttg 246000
atgtgtccc agcgaactaa tgcttcttcg ctattatccg cggaaagctc gccaaaaaca 246060
tgccgatggc ggcgctccag cttgtcgtg atggcagcgc aaatatcatt aaaatcgaag 246120

cggccttctt cctgcgccat ctgcgcgtaa aacaccacct ggaacaacag gtcgccagct 246180
tcgccgcgca aatcgtcaaa atcctcacgc gcaatcgcat ccagtacttc atagggttct 246240
tccagtgtat aaggcgcgat gctggcgaag gtctgtctctt tatcccacgg gcagccggtt 246300
tccgggtcgc gcaggcgctg catgaggggtg agaagacggt caatttgatg gttagtgtgc 246360
atgggtcttta atcgggttgta aatactagcg acaattgtaa cgtattattc ttaaccattc 246420
acgcacagag aactacgac aacgcctata taataaaata tattattaac aggtgttgaa 246480
tgctaccttt cccgtataac tttaaaatta ttaatcgata cacaacaata taataatcat 246540
ataactaatt tattaaaaaa aacagatatt tgcactaggc attataaata acatcaatta 246600
agtaaaaaaa ttatgcaaac actataagcc cccaccccaa aagagccttc cttttcaaaa 246660
aaaaataaat tatttctactt ttacggaaaa acgagtagca tgcacgccag tttaatattc 246720
aaaaaagacc gcttttttgt tttttctgaa acatacatga aataaatata ttgaaagtat 246780
tacatataat attctatgaa cctgtacgac cattctgttc ataagaatat actcataaaa 246840
atgtagaaat ataatatattt attattacat attttttacc caaagccgc agcatggctc 246900
tatgccgcat atcccttgat atacgcgtac aaaatgctgc cataaaacac gttaattaag 246960
gataacacga tgaagtcac tcatttttgt aaactggcag taactgcac tttagtattg 247020
ggaattgtct ccggcgctca agccgcgggt agcaacacag caaaggttac tttccttggt 247080
aatattgttg attccccctg ctctgtcaca ttggatacgg aagatcaaac agtcaatatg 247140
ggctcaagta tcggtaatgg cagcgtgagt aatggtaaaa cgaccatcaa caatgcccg 247200
acctttcata tcgatcttg gggttgtacc taggctaccg agaaaaatat gaatgtggta 247260
ttcactacag gtagtggaac cacagcggct acaggcgcca cggataatct cgcgctgatg 247320
aagactgacg gcactggcg tattagcaac ataagcctgg caatcggcga tgcaggcaaa 247380
aacaatatca aactggcgga tacctataca caggccattg cggacctgga cagagatacc 247440
atccttgatg agaagcaaag cctgaatttc accgcctggc tggttggcgc agcaaccggc 247500
accgtaggca caggtgaatt cagcagcgcc gccaacgtca ctatctctta cctgtaattc 247560
agataacaga gtcacgacga taaataccct gccgctttag gtaggggtatt cctgttgagt 247620
tttattgcgg aatatatttg atgaataaca catggaaaag tgttctttgc ccaatagcgt 247680
gtggagtggg aatgcttcta agcgctccc cttatagcgc gtcaggcaaa gacatcgaat 247740
ttaataccga tttcctcgat gtaaaaaatc gcgataacgt caacattgca cagttttctc 247800
gtaagggttt tatcctgccg ggcgtctacc ttttacaat taaaattaac ggacagactc 247860

tgccgcagga atttcctggt aactgggtta ttccagaaca tgatccacaa ggaagtgagg 247920
tttgccaga accagaatta gttacgcaat tgggtataaa gccggaactc gcggaanaac 247980
tcgtctggat aacgcacggt gaacgacaat gtctggcgcc agattcactg aaaggcatgg 248040
atattcagggc tgacctggga cactccacgc tgctggtgaa ttaccccag gcgtatatgg 248100
aatacagcga tgtcgactgg gaccaccccg cccgctggga taatggtatt cccggcatca 248160
ttctggatta caacattaat aatcagctcc gccacgatca agaaagcggc agcgaagagc 248220
aaagcatcag cggcaacggg acgttagggc cgaacctggg cgcattggcg ctacggggccg 248280
actggcagggc cagctacgac catcgtgacg atgacgagag cacttccacc ctccacgatc 248340
agagctggag ccgctactac gcctatcgcg cactaccgac gtcgggggcc aaacttacgc 248400
tgggcgaaag ctatctccag tccgatgttt tcgacagctt taactatatac ggtgccagcg 248460
tcgtttctga cgatcagatg ctgccgcga aactgcgcgg ctatgcgcgg gagatcgtgg 248520
gcattgcgcg ctctaataat aaagtcaaag tctcctggca ggggcgcgta ctgtatgaaa 248580
cgcaggtgcc cgcaggaccg ttccgtattc aggatctcaa ccagtcctgt tccgttacgt 248640
tgcacgtcac cgtggaagag cagaacggtc agaccagga gtttgacgtt aacaccgcat 248700
cggttccctt cctgacgcgc cccggcatgg tgcgctacaa gatggcgctg ggccgcccgc 248760
aggactggga tcatcacctt attaccggca cattcgctc ggcgagggt tcgtgggggg 248820
tcaccaacgg ctggtcgctc tatggcgcg caattggaga aagcaactat caggccgtgg 248880
cgctgggaag cggtaaggat cttggcggtg tgggcgcggt ggcggtggac attacgcact 248940
ccatcgccca catgccgcaa gacgacgggt ttgacggcg aacgctgcag ggtaactcat 249000
atcgcatcag ctactccgt gactttgatg aaatcgacag ccgactaacc ttgcccgat 249060
accgcttctc agaaaagaac ttatgagca tgagcgacta tctggatgcg aaaacctatc 249120
atcatctcaa tgccggtcac gaaaaagaac gctatacggc cacctataac cagaacttcc 249180
gtgaacaggg catgagcgcc tatttcagct actcacgcag taccttctgg gacagcccgg 249240
atcagagtaa ctataacctg tctctttcct ggtacttcga cttagggtcg ataaaaaatc 249300
tcagtgcgtc gctgaacggc tatcgacgcg aatataacgg tgataaagat gatggcgctc 249360
atatctcgct gtctgttccc tggggcaatg attccatcag ctacaacggc acgtttaacg 249420
gtagtcaaca ccgtaatcag ctcggtatt ccggccacag ccagaacggc gataactggc 249480
agcttcacgt cgggcaggat gaacaaagcg cgcaggcaga cggttattac agccatcagg 249540
gcgcgctgac ggacatcgat ctgagcgcg attatgaaga aggatcgtac cgttcgctga 249600

gtatgtcgct gcgcggcggc atgacgtga ccaccaggc cggcgcgcta caccggggaa 249660
gttttagcggg cagcacacgt ttgctggttg ataccgacgg cattgcggac gtcccctgta 249720
gcggtaacgg ctcgccaacc tcaaccaaca ttttcggcaa ggccgtgatt gcggatgtcg 249780
gaagctattc gcgcagcctg gcgcgtatcg atctgaacaa attgccggag aaggcggaa 249840
ctactaagtc ggttgtgcag atcacgtca ccgaaggcgc catcggctac cgtcactttg 249900
acgtggtcag cggcgagaaa atgatggcgg ttttcgggt agcagacggc gacttcccac 249960
ctttcggcgc cgaagtga aaacgagcgc agcagcagtt gggcctggtg gccgatgacg 250020
gcaacgcctg gctggcgggc gtaaaagccg gggaaacatt gaaagtcttc tgggatggcg 250080
cggcgcagtg tgaagcatca ctcccgccca cgtttacacc agagctattg gccaacgcgc 250140
tattgctgcc gtgcaaaatg ctggaaggtc agccccccac cgcaccgcag aaaagtcttc 250200
cgctgcctgc gcaaccgcta atccaggaac atacgcaaac cgatggccaa ccggccgcgc 250260
cggtggcgac aaccactcaa accccgccc taccgtggc tgacaaccat gcggtgaatc 250320
gcaaggatat ggaataaagg gaacctgtaa tgaacaagac caaccatttt aatcgccagg 250380
cgcttattgc cacggtatta ctggctgcgc cgctggtgtc acacagcgcg attgtgccgg 250440
atcgtaccgc cgttattttt aacggcaatg aaaattcaat caccgtcacg ctgaaaaacg 250500
gcaacgccac tctgccctat ctcgctcagg cgtggctgga agacgataag ttcgccaaag 250560
atacccgcta ttttaccgcc ctgccgcgc tgcagcgtat tgagccaaa tccgacggc 250620
aggttaaagt ccagccgta ccagccgcg ctggcctacc gcaggaccgg gaaagtctgt 250680
tttatttcaa cgtgcgagaa attccgccga aaagcgataa gcttaatacg ctccagctgg 250740
cgctgcaaac gcgtattaag tttttctacc gcccggtagc cgtagcccgg cagggtggata 250800
agacgcaccc gtggcagacg aagctcacgc tgacctacca gggcgatggt gtgatcttcg 250860
acaacccac accgttttac ctcgtcatca gcaatgccgg tagcaaagag aacgagaccg 250920
cctccggctt taaaaacctg ctgattgcc cgcgtgaaaa agtgacctct cccatcaaag 250980
gtgcctcgct cggcagctca ccggtggtg gctacgtcga tgattacggc ggccatcgcc 251040
tgctggtttt tacctgctca gggaatacct gcaaggtcaa tgaggaaaa acccgtgacg 251100
ctgagaagaa agcgaataag taatcctgtg cgaaagagat ctatgacgat gttgactcgc 251160
tggaataac tgggtgctgct gtgcggtgga ttcgttaccg gcaccgaggc tgccggcaca 251220
aaaacgtgc aactggagct gcatctggtc gtcactcaac caccgccctg tacggtaggc 251280
ggcgcttcgc tagagtttg cgatgtcctg accaccaaag ttggcgatgt ttctcaaacg 251340

-161-

aaacctgtgg gctacagcct gaactgcat ggcagagcga gtgactatct gaagctacaa 251400
attcagggga ccaccaccac catcagcggg gagcaggttc tgcaaacttc ggtgcagggg 251460
ttaggcatcc gtattcagca ggcgggcaat aagcaactgg ttccggttgg cataacggat 251520
tggtgaact tcaccctgag cggcagcaat gggccggagc tggaagccgt accggttaaa 251580
gagcccacca cgcagttagc ggggtggcat tttaacgcca gtgcgacgtt agtcgtggat 251640
taccagtgat ggagagattc atagtgaata ggggtgcttat cctgacgctt ttaatcacc 251700
ggtttgccctg cgccgacaat ttgaccttcc acggcaaaact gataaaccgg cccgcctgta 251760
ctatcaataa tgggtgaaacg ctggaggtca gttttggttag cgtgattatt gataatattg 251820
acggcgtcaa ttacctgacc gagatcccgt ggacccttac ctgcgacagc agctttcgcg 251880
atgacgcatt aacttttacg ttgagctatc tgggcacggc gacgccttac tccgcaaaag 251940
ccttaaccac caatgtccct gggctgggca ttgaacttca gcagaacggc acggtgtttc 252000
ctcccggcac gtcgctaacc atcaatgagt catcgcttcc cacactaaaa gccgtgccgg 252060
taaaacagcc cggtaaagag cctgccgaag gcgattttga agcttttgcc acgttacagg 252120
tggtattacca atgaaccgta tttttcaaac taccgggcat ttgatcggag gcgtaatgtt 252180
atgggcgggtt tgcaatacgc tacctgctgc cagccctaat gtgcactaca gcggtaaagt 252240
ggttgccgga gcctgtaacc tggtagtgga taatgacacg atggcgacgg tggattttca 252300
tactattggc agtgacaatt tcgacgccag cgggcaaaacg actcctgttc cattcacact 252360
tagcctccag gattgcaaaa cagcgttagc caacggcgtg gtggtgacct ttcagggtgt 252420
tgaagacagt accctgcccg gactgctggc gctcgaatcg tcttctattg ctaacggttt 252480
tgctataggg attgagaccg cagatcagca cccgttaatt atcaacgctt ctcaaggtac 252540
ggaatttatg ttggcagagg gaaataccat tatcaatctc caggcatggc tacaataaac 252600
atcaggggaa aatattatgc ctggggaatt taacgccagc gcaatggtta attttgaata 252660
ccaataatgt tatttaacaa aaaggcattg atgctctggc cagaataaaa aggagttaca 252720
acgcaatgga aataaaaaaa agcatcttgg ttagaaaaaa tatacgcttg tcaggaaatca 252780
tcattgacat gctcatttta accatacttt taatcagcac gtttgatgct gtatctgact 252840
cttccccggg aaaagcaagc gctatcaata ttgcacttca aggaactccc aacacagatt 252900
atgaattaaa tggcgatctc cgctctaacg gagggataat gccaaagacg ctttatatgg 252960
tatgttcagg aggaaaattc agtgcaagcc aggctgattg cgttgccggg caatgggtag 253020
atatcgaagt tgtaatatct gcggacagtc atacgttcat gaatttgaca aatatgggca 253080

atttgagttc ttctgcattt caggaaaaaa ggcggtgctcg ctgtacagcg aaaaatagta 253140
atacgatgga ttgtatttgg gaaagtaact tcgacattaa cttgtttttt tcaccttcta 253200
caaacatctc ctcaattgaa agacaatctc tgactctoca tatcgagcct acgaataatg 253260
catcaccttc tctacagcaa atcaatatca gggcgactt aatctaccag ctttctgact 253320
acgcagtgta taatcaagga tatactcctg acgtcttagc ctacgttaat ttttatgcta 253380
aatacaatat cgtccaatca agctttggta cacagacagg cccggcgacg ggcgcctgc 253440
cgggacgcct caatctgaac gggaacgtag cgaccacagt ttctttatat cctgaacaac 253500
ttgatgcctc tttttcgaaa acagaatttt ccatcacatc tgccagcaaa gaatttacgg 253560
gttctggtaa taatgaacta ctggcagaaa tctatctaaa ctatggacta cagcattgcc 253620
agccgcaaac ggcagatagt atttgtggtc aaatattagc taacgcgaac gtttcaacat 253680
cgtgtggtga tcataatatt actatcacia ccaatatgtg caatacaggt aatgaccaat 253740
gtgatagtga tgaaacatgg aaaattgcag agatcttcgg gacatggggc cgggttaatg 253800
tcgacactat atgcgctatt acagtattgc ttccctatga ataatgctta gaaaaaatac 253860
tcggaacct aaataatctc gcaaaacagt agattactta tccgaaaaat ttttcggcct 253920
tcagtgaggg gctctgctcc agttgcgcga tcagatcatt taaccaaact aatagtcgaa 253980
caaaagaggg gagccatgaa cggctaccat ttctttcgcg agttaagcga agaatgctga 254040
aaaaacagta cagaaaagtc aggataaaga gttatacaga cggcttacca ctatcccaat 254100
gctgtataca ggattattgg ttagttcact ttactgctcc taaaaaacct gcctcactta 254160
aaatttagca aaattattga ccaaggaaaa caaatgtgta caaatttttt aaaaacatcg 254220
ctactaataa catccacttt ttggtgtatt gcgctacaat gcgctgaagt aagaacggat 254280
ataaaatata atttcaaat tatttcacag ttgatagta ttagcgact ggctggcgat 254340
cctacattcg ataccatoca taccocatta ccaacaaaca ttcatatcct ttcacgtgc 254400
actaagtcag gtggaggggg ggttgattc caggtacatt gcctgatgga cttgaatcca 254460
ctcttgagtt tgatccatca acttctttca tcaatacaac cgctgtcgat aacggtatca 254520
cttatagttt tactggtgaa gcggtaaaag cgacggcaca tgccagctgt acggctaate 254580
aggcaactaa cagcgcaatt tgtgtatggg ataaatcatt ttcacttccc ctcaccttac 254640
ttaccaaaca gaacggaata accattaacc agcaaatct tacagtttcg gtaatacccg 254700
gaggaggaaa taatgatact aaccagtact catcccttc cggccatatt attattgatg 254760
aatcggtaag cagctacacg aattatgaac cggaacatc ggcattgag aatttaaaat 254820

taaaatggac tgtaacagtg acagaagata ccgaaggtga tgtcgggtata tggaacggat 254880
cacttggtact taatgggtct ccagcgtcca ccctacatcg ttatttgctt ccagaaatat 254940
tagatgcttc attttctgaa aatgcgatag cgcacagtac cgaagtcgcc atgactggcg 255000
caaaaaataa tgtcgaagta gcctctgtat atctctacca tggcaataacg ccatgcgatg 255060
atacatcctt gtgtaactac agtcttaata agacatcagt ttctcttgta tgtcacgatac 255120
tgaatgcgca acttaacttt agcaacactt gtaatgcttc aggcacaaca cattgcctga 255180
acggaaaagt aggtacgata aagggtacct gggagagagt caacatcgat acaacttggtg 255240
caattaccgt tttgataccc tacgaataaa cacaggaaaa atgatgacca taagcaaaaag 255300
aatcataatt tcattttattc tatttatgtg cttcaccaac aatacatttg gatctggata 255360
cgттаagatc aatgccgaat tgaatgatat ggcaggcaga ggggtaggca cagtgattta 255420
aatagtaatc tacggcgaag gggaaatctt tctttttggt tgtacaggga acgcttcggc 255480
ataccagaaa ggaggtcagc cctcacggg atagatgaaa aaacagatcc agaatcgag 255540
ggcgaaaaga gttaatgatg agaacagata aagaatgaag aagcttagat ccagactcat 255600
agctaattat tcatagaata aatactatag taatgaataa aattcagaat aggtgttacg 255660
tatttcaaac acataaaacc ttaaccgata tcacatagag tataacttaa aaaggctata 255720
accaatttac atgcttacca gcatcctgat tctggctcag aatacgtatc acgataactt 255780
ccgтаactga ttatataaaa tagataatat gcctttcaaa cgгтаaggca taaatgtatt 255840
caccagttc aggtcgaggc gtgccaatgt tattggcact cataatgctg aatatttctg 255900
atagatgatg aatatatcga tcggcctgta ttccacaaa atgctgccag ccgтаatgcc 255960
agatattttc cagatcttca ctggcctttg gcgttaattt taccgttctc atcggggttg 256020
atcatccctg ttttgacctt ccgтаaaaag gcatcctttt cccaggcctg cggctctccg 256080
ctgttcagac cttcagccag aagttcacgt aacgcctgaa gtcgtgactc ggcctgtttt 256140
tcctcagca gacgaagaga ctctctgata acttcacttt gcgttctgta atcacctgat 256200
tctatgagcg attcaataaa ctgcgcaat tcatcgccaa gatcaacggт cattgttctg 256260
gccataacag cctccactgt aagtataaat cttacataag agtacacctg aaatgaaatg 256320
tacgtcaaaa acatacctca tatatcatgc ttatgggggtt ggctaatgcg gctttgctga 256380
acgagtagca aagccgctac attattactg tctgggggtt acccccctg cagtcgccgt 256440
gcatcaatca catccggcac ctggttcagc ttaccgagca cgcggcccag cacctgcagg 256500
ttgtagatct cgatggтcat atcaatggтg gcgatctgct gtttaatgtc gctgcggctg 256560

gcgacgcccc gcaogttgac tttttcgtta gccagaatgg tggatgatatc acgcaataaa 256620
ccgctgcgat cggtggcctg gacgcgcacc accagcgaat atcccgcga gtagctttcg 256680
ccccataccg cctctacgat ccgctccggc gcatgggagc gcagttccgc cagctgttcg 256740
cagtcggccc ggtgcacgga aatccccgc ccctgagtaa tgaagccgac aatttcaccc 256800
cccggaatcg gctggcagca gcgggcaatg tggatgatca ggttaccaac ccctccacc 256860
accacgcgc ccgtcgtcttt acgacgattt tgcggcgcgt atgttttttg ctgaagctgt 256920
ttcagcgccg ctgcatcctg ctctctgca ctcggttat tgaactgca ttgcaggaaa 256980
ttcaccatct gattaagacg gatatcgccg ccgcctatcg ccgccagcaa ctctccacc 257040
tcattaaagt tgtagcgcgg cagcagatgt ttttcggcct ctttcaggct aatccccaaa 257100
tgccgcagct catcgtcgag gatctgccgt ccagccagga ttttttgtc acggtcctgt 257160
ttacggaacc aggcgtgaat tttcgagcgt ccgcggctgg tcgtcacata gccaggttt 257220
ggattcagcc agtcgcggct gggattcggc tgcttctgag tgataatttc aacctgatcg 257280
cccatctgta actggtaggt aaacggtacg atgcgccac caattttcgc gccgatgcag 257340
cggtgcccga catcgtctgt gatgtggtaa gaaaatcga gcggcgtaga tccggcaggc 257400
aagtcaacca cgtcgccttt tggcgtaaaa acgtagacc gatcgtcaaa cacctggctg 257460
cgcaattcat ccagcatttc gccggaatcg gccatctctt cctgccaggc gatcagctta 257520
cgagccacg caattctgtc ttcattggccg gaacgcacgc ccgcggacgc ggcgccttct 257580
ttataacttc agtgcgcgc cacaccagc tcggcgctctt catgcatctg tttggtagcg 257640
atctggatct caacggtttt accgcccgc cccaagacca cgggtgtgat agactggtaa 257700
ccgttcggtt tcgggttagc gacataatca tcgaattcat ccggcagggtg gcgatagtgc 257760
gtatgacta tccccaacgc ggcgtagcag tcttgacagc gttcagcgac gatacgcacg 257820
gcgcgcagc caaagagttc atcaaacgcc agatgctttt tctgcatttt gcgccagatg 257880
ctataaatat gttttggtcg tccgtagact tccgcctgca cgccttcgtt tttcatttcg 257940
gcgcgcagat gtccaacaaa ctcttcgatg taatgttcgc gatcgaggcg gcgttcacgc 258000
agcagtttgg cgatgcgttt gtattccgcc ggatgcaggc agcggaacaa gtagtcttcc 258060
agttccact tcagttgcc gatgccaga cgattagcga gcggcgcata gatgttggtg 258120
cattctttcg ccgccagcac gcgctcatct tccggcgct ctttcacttc gcgcaaatga 258180
gcgattcgt cggccagttt gatgaccacg cagcggaat catccaccat cgccaataac 258240
attcgacgga cgttatcaac ctgctccgaa gaaacagagt cgttatgagt ggcgtttaac 258300

-165-

tggcggatcg cgcctatctc gcgcacgcca tgaatcaggg taacgataga ttgccaacg 258360
ctttcgcgca gtacatcttc gctgactacg ttggcgtcgg ccagagggaa cagtagcgcc 258420
gcccgcagcg tgtcgatctc catactcagc gtggaaagaa tttctaccat ctccacgcca 258480
cgccacagca acagatccgc atccggatgt ccttgtgtct gttgcaggca atacgcccag 258540
gtttcggcta agcgctcaca cgactgctgg ctggaaattc ccaggcttgc gatccacttc 258600
ttcggatcaa attcaccagc tttattaata tgtgcacttc ttaccgcgac catcgctctc 258660
tccttaaggg accaggccta ccgaagtccg taagccggta atcattacat gcgctcgaac 258720
agaaccattg attccagatg tcctgtgtgc gggaacatgt cgagcatcgc taaacgcgta 258780
acctcatatc ccgcattgac cagcgcttca ctatcgcgcg ccagcgctgc cgggttacag 258840
gatacataaa caatgcgaat aggttttaat tttataatat gtcgcatcac tcctgtagcc 258900
cccgcacgcg caggatcgag taagactttg tcaaagccgt ttttcgcca cggctgcttc 258960
gtgacatctt cctccaggtt ctctggaag aatgtcacat tatgtaaacc attgcggatg 259020
gcgttttcac ggcttttttc taccagcgcc tgaacgcct caaccctac cacgcttgcc 259080
gcgcgcgttg ccagcggtag cgtaaaattc ccattccgc agaacagatc caggacacga 259140
tcctcggcgc gcacatcaag ccactccagc gcgcgggcca ccatttgctg gtttacggcc 259200
tcattaacct gaataaagtc tcgcggaactg aagggttaaac gtaagccgtg cgaatcatac 259260
cagggcgctt cgccagatac cgtttccagt atctcgctaa acggcgccag gaacagagac 259320
aatccctcag aatgcgaaaa gcgttccagt ttttctttat ccgccgcaat taatggcgcg 259380
gtatggcgca gaatcatcag cgtaccgctt ccgcctgta ccagctcaac atgcccaaga 259440
tgtcgggtgc cgtgtaaact cgccagacac gccctgatgc ggggcagcaa tgcttcaagc 259500
tggggcgcca aaacggggca ctgttcgaca ttgacgatat cgctggaacc cgctttgcga 259560
aatcccattt gcagcggttt atccggcggg caattcagac ttaaccgcgc acgacgccga 259620
taaccccagg acgcgcgggc gatgatgtca ttcacctcat gtttcattaa acgogccagc 259680
gccgcgcttt tgctgcgttg ttgcaggctc atgccgacat gctgttgctg acaaccgcgc 259740
cagacgcca aatgcgggca gcgcggcggt tctcgttccg ggctatcatt caaacggcg 259800
gaaacgcgtg cgcgggcaaa ttgcttttta tcttctgtaa taatgacttc tgcgctttcc 259860
tcaggcaata aaccggggat aaacagcgcc tttccgttat gacgggctac gccctgacca 259920
aatgaatcga ggtcattgac ttaaacgggt atgatctgac gcgtcgtcac gcgcggtttt 259980
gcagagtaga attgcgccat cgaccagctt tttctcaatt taacagtgtg accctaattg 260040

-166-

tcccataacg gaactccatg accaactaca gcctgcgcgc acgcatgatg attctgatcc 260100
tggtcccgac cgtcctgata ggtttgctgc tcagtaictt ttttgtagtg caccgctata 260160
acgacctgca gcgtcaactg gaagatgccg gcgccagtat tattgaaccg ctgcgcgtct 260220
ccagcgaata tggtatgaac ttacaaaacc gggagtctat cggccaactt atcagcgtcc 260280
tgcaccgcag aactctgat attgtgcggg cgatttcgtt ttatgacgat cataaccgcc 260340
tggttgtaac gtctaatttc catctggacc cctcacagat gcagcttcct gccggagcgc 260400
cgtttccacg tcgtctgagc gttgatcgcc acggcgatat tatgattctg cgcaccccca 260460
ttatctcgga gagctattcg ccggacgagt cagcgattgc cgacgcgaaa aataccaaaa 260520
atatgctggg gtatgtggca cttgaactgg atctcaagtc ggtcaggcta cagcaataca 260580
aagagatttt tatctccagc gtgatgatgc ttttttgat tggcattgcg ctgatctttg 260640
gctggcggtt tatgcgcgat gtcaccgggc ctatccgtaa tatggtgaat accgttgacc 260700
gcattcgccg cggacaactg gatagccgtg tggaaggatt tatgctgggc gagctggaca 260760
tgctgaaaaa cggcattaat tccatggcga tgctcgttgc cgctatcac gaagagatgc 260820
agcataatat cgatcaggcc acctcggacc tgcgtgaaac ccttgagcag atggaaatcc 260880
aaaacgttga gctggatctg gcgaaaaagc gcgccagga agcggcgcgt attaagtcg 260940
agttcctggc gaacatgtcg cacgaactgc gaacaccgct gaacggcgtc attggtttta 261000
cccgctgac attaaaaacg gagctgaacc ccaccagcg cgaccatctg aacaccattg 261060
agcgttccgc gaataatctg ctggcaatca ttaatgacgt gctcgacttc tccaagctgg 261120
aagccggtaa gctcattctg gaaagtatcc cttttccact gcgcaacacg ctggatgaag 261180
tggttacgct gctggccac tcgtcgcatg ataaagggt ggagttgacg ttaaataatta 261240
aaaacgacgt ccggaaaaat gtgattggcg acccgctgcg cctgcaacag gtcattacta 261300
atctggtggg caatgccatt aagttcaccg agagtggcaa tatcgacatt ctggtagaaa 261360
agcgggcgct cagtaacacc aaagtacaga ttgaagtgca gatccgcgat acggggatcg 261420
gcattccgga gcgcgaccag tcgcgactgt ttcaggcggt tcgccaggcc gatgccagta 261480
tttctcgccg tcacggcggc accgggcttg ggctggtgat tacgcaaaag ctggtcaacg 261540
aatggggcgg ggatatctct ttccacagcc agcctaactc cggctcgacc ttctggtttc 261600
atattaatct tgatcttaac ccaaagtca ttattgacgg gccgtcgacc gcgtgtctgg 261660
ccgggaaacg gctggcttat atcgaaccga atgctaccgc cgcgcaatgt accctggatc 261720
tactgagcga cagccgggtg gaagtgattt acagcccgac cttctccgcg ctgccgttag 261780

cgcactacga tattatgatt ttgagcgttc cggtagacctt ccgcgagcgc ctccaccatgc 261840
agcatgaacg tctggcgaaa gcagcgtcaa tgacggactt tctactgctg ggcgtacctt 261900
gccatgcgca aattaatgcc gaaaagctga aacaaggagg cgcggcagcc tgtctgttaa 261960
aaccattgac gtcaacgcgc ctgttgccag cgctgacaga atattgccag ttgaatcacc 262020
atcctgaacc gctgctaatt gataccagta aaatcaccat gacggttatg gcggttgatg 262080
ataatcccgc taatctgaag cttatcggcg cgttactgga agataaagtc cagcacgtag 262140
agctttgtga tagcggacat caggcggtag atcgggcgaa acaaatgcag tttgatctga 262200
ttttgatgga tattcagatg ccggatatgg acggcatacg cgctgagag ttaattcacc 262260
agcttccctca tcagcagcaa acaccggtta ttgccgttac ggcacatgcg atggccgggc 262320
aaaaagagaa gttgctcagc gcgggcatga acgactatct ggctaaaccg atagaagaag 262380
agaagttgca taatctgttg ctgcgctata aaccggcgcc caacgtagca gcgcgcctga 262440
tggcgccgga accggctgag tttatcttca atccgaatgc gacgctcgac tggcagcttg 262500
cgctccgcca ggctgccggt aagcccgatc tggcacggga tatgctgcaa atgctgattg 262560
atcttctgcc ggaagtgcgc aacaaaattg aagaacaact ggtgggagag aatcccaacg 262620
gcctggtcga tctggtccat aagctacacg ggagctgcgg ctatagcggc gtaccgcgga 262680
tgaagaacct ttgccagctt attgagcaac agcttcgcag cggcgtccac gaagaggagc 262740
tggagcctga gtttctggag ctgctggatg agatggataa tgtcgcgct gaagcgaaga 262800
agatattagg ctgatattcg ccggatggcg gcgtgaccgc cttatccggc ctacaactca 262860
gcgtaattgt tgccccgctt tcagcgttgc agccacgttg cgcgcggtca ttcgtagctt 262920
ttcactcgca ttcttcagcg cgtcctccaa cgtgcagatg gtataaatca cgctgaaaac 262980
ggcatcaagc ccatgttcat gaaccacgcc aacgtccgcc gtcaggctac ccgcaatacc 263040
aattaccggc ttgttatacc gtttgggcat gtttgccacg ccaataggga ctttaccgtg 263100
aatggtctga ctgtcgatgc gtccctcgcc ggtgatgact aaatcagcat ccgcaagaca 263160
cgcttcaga tgaagcgcat cggtgacaat ctcaatacca cgcgtagct gcgcgcgca 263220
aaacgcgtat aacgcgcgcc ccatgccgcc tgccgcgccg ccgcctgcca gatccaacac 263280
atcgacatgc agatcgcggg caatcaaatg cgcatacgca gtcaatgccg tatctaggcg 263340
ttcaatcatt tccggcgctc cccctttttg cggacaaaaa actgcagacg cgcctctttt 263400
gccggttaagg ggattcgtga catcgcaggc gacctctata tggcacgccg acaaacgctt 263460
atccaggccg ctgatatcaa tgctggcgag tgtttccagc ccaatgccgc cttgcgcaat 263520

atcattgccc tgcgcatccc gtagcctggc acccagcgcc tgtaccatcc ccgcgcgcgc 263580
atcgttggtg gcgctaccgc cgataccaat aatgatatgc tcaacgcccg catccagcgc 263640
atgacggatc agctcgccgg ttcccatga cgtggtcttc aacggatcgc gttgcgcggg 263700
cggcacctgc tccagcccgc tggcggcgc catttcaatg aacgcggaac gcgcatcgcc 263760
ggaaagccca taaaacgcat tgacgcgatg cccaacggc ccggtgacct caacatgcac 263820
gattcgaccc gccgtcgctt caaccatcgc ttcgacagta ctttctccgc catcagccag 263880
cggtaatttc aggtaatccg cgtcaggcca gatctcgca aatccttggt caatggcggg 263940
cgctacctca agagcactca aactttcctt atacgaatct ggtgcgatca ctattttcat 264000
aagtcgtcct tacgcatggt gatcctgtta agcatacacc cagagaagga ccggttcctt 264060
acggaaccgg ctctgactta acgcaccatg caagggcgct tattatcaaa cgtccagcca 264120
ggaattaagt actgcattcc catcgcgctg tcacgcgcgc ctaagccatg cttttgatag 264180
agtcatgcg ctttcatcac ctgatccata tcgagctcaa cgcgccagccc cggtttggtc 264240
ggtacttgca ccatgcgcgc tttaatttca aacggttctt tagtcagacg ttggttgctt 264300
tcctgccaga tccagtgggt atcgatagca gtgatcttgc ccggcgccgc cgcggcaaca 264360
tgggtaaaca tcgccagtga aatatcaaag tggttgttag agtgcgagcc ccaagtcagg 264420
ccgaactcat gacacatttg cgcacgcgt acagagcctt gcatagtcca gaagtgcggg 264480
tccgccagcg ggatatcgac ggattgcagc gacagcgtat gcccacatctg acgccagtgc 264540
gtggcgatca tattggtggc cgtcggtaat ccggtcgcg gcggaattc cgcacact 264600
tcacgaccgg aaaaaccctg ctccgcgcgc cacggatctt ctgcataggc cagagaacct 264660
tttaggtatt taccaatgct gatcgcttgc ttacgcgacc aggcaccgtt tggatcgagc 264720
gtgacgcgcg cttgtgggaa acgtttcgcc agcgccacga ttgactcggc ctcttcttcg 264780
cccgccagca cgcgccttt cagtttgaag tcgttgaagc cgtatttttc atacgcgcgt 264840
tccgccagac gcaactaccgt ttccggcgtc atgcctctt catggcgagc acgataccag 264900
tcgcattgct catccggctg gctttgatac ggcagcgcg taaccttgcg attgccgaca 264960
aagaacagat aaccagcat ttcgacttcg ctgcgctgct gaccgtcgcc taacagcgaa 265020
gcgacgttga cgcgccagat ttggcccaaa aggtcaagca ttgccgcttc aatgcccgtc 265080
accacatgga tagtggtacg gagatcgaac gtttgtaaac cgcgtccgcc cgcacgcga 265140
tcggcaaact ggttgcgaa ggcggtcagg acatttttat attcatccag cgtttttccc 265200
accaccagtg gaatcgcatc ttccagcgtt ttgcgaattt tttcgccgcc cggaatctcg 265260

ccgaccccag tatgaccgga gttatcttta acaatgacga tgttgcgcggt aaagaacggg 265320
gcgtgcgcg cgcgcaggtt catcagcata ctgtcatgac ccgcaaccgg gataacctgc 265380
atttcagtca ctacaggcgt ggtaaattga gtactcataa ctgtgtcctt attcagaatt 265440
agtgacgacc aaaaacaggg cgtttgcggt caaaagtcca gccggggatc aggtattgca 265500
tcgggcctgc atcattacgc gcgcgcctg gcagcttttt atacgcgtca tgcgcttttc 265560
gcacctgttc ccagtcaagc tctacgcca gtcctggcgc atccggaacg gcaattttgc 265620
cgtttttaat ttccagcgga tttttagtca ggccggcaatc gccctcctgc cagatccagt 265680
gcgtatcaat agcgggtgggt ttgcctggcg ccgcgcgcgc gacatgggta aacatcgcca 265740
gtgaaatata aaaatgggta ttcgaatggc agccccaggt tagccccag tcatcgaca 265800
gttgcgccac gcgaacggcg ccggttaagg tccagaaatg cgggtcggca agaggaatat 265860
ctaccgcgtt gagcatcacc gcgtgtccca tttcacgcca gttggtggca atcatattgg 265920
tcgccaccgg cagtcctgtc gcgcggcgga actccgccat gacttcacga ccagagaatc 265980
cttgctccgc gccgcacgga tcttcgcgt aggtcagtag atcattcagc cttttgcaca 266040
acgcaatggc ttcattccagt agccaggcgc cgttcggatc cacggtaata cgcgcgtccg 266100
ggaagcgttt ttttagcgcg cgaacggtat caatctcttg ttgcgccggc agcacgccgc 266160
ccttgagttt aaaatcttta aagccgtagc gatcctgaga cgcttcgcc agccgcacga 266220
ccgcgtcgct gttcagcgct tcctgatggc gcagacgata ccattcatga ctgcccggcg 266280
tgctttccag atacggcaga tcggtttttag tgcgacgcc aatatagaag agatagcca 266340
acacggtgac ggcatcgcg tgtttacctg gccctaacag ttcacagacc ggcacattaa 266400
gcgcctgtcc ctgtagatca agcagcgccg cttccaaagc cgcaccgcg ttaaccgcga 266460
gttcaaacgt ccatgcgcct ttgccaaagg tgtcaaaatc agcggcctgg ttgcctttat 266520
gcacctgtg caccactttg ttcaggcggg cgacttctg gctaataacc atcggaatag 266580
catcgaccag cgtctgataa atcacttctc cgcccgcggt ctgcgcgacg ccagtatgcc 266640
cggcgttatc ggtgaggacg acgatgttac gggatgaagta cgcgttatgc gcgcgcgga 266700
tggtgagtag catactgtca tgtccggcaa ccggaatgac cttcatgtcc gtaataacgg 266760
gactggattg cgttgtcatg ataattgtcc tgcgacaggt ttcagttcaa tacgcttaat 266820
atcgccatcc agcaccagat agctgatgat ggccaccagg gcatgtacgc cgacatagat 266880
caacgcgccg ttgaaggaa cgggtggtgcc aacgatgtaa ccaatcgga ttggcgtcac 266940
aataccggaa atattgccga acatattaaa caagccgcgc gaaagaccgc tgatctcttt 267000

cggggcggtta tccgccatta ctgcccagcc caacgcgcca atacctttac cgaagaaggc 267060
caacaccata aagccgatga tcatccattc cacgttcaca tagttacaga acaccataac 267120
cattgacagc aacattccca gcacaatcgg cgtcttgccg gcgatattca ggaagccagt 267180
acgacgcata agccagtcgg aatgatgcc gcccaacacg ccgccgataa agccgcagac 267240
tgcaggaacc gaggcgacaa agcccgcctt gagaatcgac atgccgcgog cctggaccaa 267300
atagaccggg aaccaggtaa taaagaaata ggtcaatgcg ttaatacagt actgaccgat 267360
gtaaacgcca atcatcatac gagagcccag cagctgtttg atctggcccc atttgacgct 267420
aaacggtact ttgccttttg tgtctttctg atccatattg atcagcgccg cgccttctgc 267480
gatgtactcc aattctttct tatttacgcc cggatgggta ttgggttcat ggataacttt 267540
caaccagata aagctgatga tgatccctaa cccgcccata aagaagaaga catgcgacca 267600
gccacttcg tgcgtcagcc agcccataat cggcgcgaaa ataaccgtgg caaagtattg 267660
cgcgagggta aagatggcca ccgcggttcc cctctcctgc gccgggaacc aggcgcgaac 267720
gatgcgactg ttgcccggga aagaaggcga ttccgccaga ccgaccagga aacgaagcgt 267780
aaagagggcg acaataatgc cgaaaccact aaagatatcg aaaaaacct gcaacagggt 267840
gaagactgac caaatgaaaa tagaccagaa atagacgcgt ttggaaccaa agcgggtccag 267900
cagccagccg ccgggatct gcccgataac ataggcccat gaaaaagcag aaaaaacata 267960
gccataacct accggatcaa ggccgatata tttggccatt tctgagccgg caatggacaa 268020
tgtggcgccg tcgccgtagt tgaaggatgt gacgataaac agcatcacca ctatccagta 268080
gcgggcggtc gtgcgtttct ccgcactgct cgcgcgctga cttaatgaac tcattggtgc 268140
actcctgaaa ttctgcgtta gctacgctca ctctgaactg cacaaccggt agggaatcag 268200
agataacgtt tcttgtttgc agcttttatt aggtcgtttg ctttgcacgc tgcattgctt 268260
tattcactgg caggagaagt ataaaaagcg cgcacacac actcaccgtg caacaacaca 268320
gtattttggc gatgaattac gctgtttat ggcaaaagcc caggacagtg gaagccactt 268380
cacggaaatg aaatcagaag gcgtcggcgt cgacgcagga ggagtaaaaa gagaagaatg 268440
tgaaacaggt cgcttgatta catgaaaacg ccgtaaaaa actgccgctt ttgcgggcat 268500
atgccc aaag ctaacacgat tcagttactt tacactgtgt acaggtcgtg attttgctta 268560
ctggcaacgc aagcaaacga aaaggtaccc tccgtaggg gggagggtt tacctcagga 268620
aagtaaagtt cccagtttt caaccagggt attggattgg ctctccggct ccggaatgttc 268680
gctggcgtca atgaataata tctccccac ccgctgcgcg ctttgctctt gcaacagggc 268740

-171-

atcaaactgt ttgccgccat tacagaaatt ggggtagctg ctatcaccta gcgcaatcac 268800
cccgtaacgc aggttttggt gaaaacccaa cgtatcttta atgccgtgaa agagcgggcg 268860
aatgctatcc ggtagatcg cttgcccgtt cgtcgaggta acgaccagcg caaccttata 268920
ctgatattgc tgccagtcgg acagttcagg atcttcaaac acggtcgcgc tgtggccctg 268980
tctggcgagg atcgcttcgc cttcttcgcg caccagcagt gagttgccat acatgggtccc 269040
gacaaaaata ccaatttcgc ccattatgcg tatctccctg aattatgtca gatgagtctc 269100
atcctgccgg gacgcgcgcg taaactcaac cctttcattg tcaggga gaa gtccacgcca 269160
gccaaactgt gtcagcacct gcatccaggt ttcaccaac ccggcctgaa ttatcaacgg 269220
ctgtccgggtg aaggggtgcg tcagttcaag ccgactggca tgaagcatca ggcgacgaca 269280
ggcaaaatgc tctgcggcg cgcggttttg tcgcaaatcg ccattgctgc tgtcgccgat 269340
gataggatga cgcagatgcg ccagatgacg acgaagctgg tgcttgcgct ccgtttttgg 269400
ttccagctca accaggccat aacgcgtggt gggataacgc ccggtcggca ccgccatttc 269460
gaccgtcgcc agcccgcgat actgcgttac agccggctgg ggcgctttat cttcgcgggc 269520
gaatttatcg gcaattttat cgcgctcttc caccagcgga taatccagta ccgcgtcatc 269580
tatcagccag ccgcgcacaa tggcatggta gcgtttacgg atgtgggtgct gctcgaactg 269640
ctgcgccaga cggcgctccg cttoctgga cagccccatt aacagta cgc ccgacgtggg 269700
cctgtcgaga cgggtgggcg taaaaacatg ctggccgatt tggtcgcgca ccgtttgcat 269760
gaccacgact ttttcgtcgc gatccagcca gtcgggtga acaagccagc ctgcgggttt 269820
attcacggca accagccacg ggtcttgata gaggatctcc agcatcagga tttatcgcg 269880
acgaatagcg catccagatc ctgcaaaacc gccaggatcg cctcccgctg cggatgatcc 269940
gccgccagcg ccatttcata ataaggggcg acggcaaacg cctcgggcag cggctgcgca 270000
ttatcaagta gggtatgcat acgtgggatc aatacccatt gcagccattc cagcgggttc 270060
atggtatcca taaaaaatgg ttgggtgctg gtaaacaaat gcgcctgcgg cgcattccagc 270120
cgccagtggc gatgctcgcg cagcagcgtt tcaagcgcat gtaactgctg acgcacacgg 270180
tcatgagtcg tcatgttaaa acctcaatga tgaaaatctg gcgcgaagaa taacaaaaaa 270240
agggagcact gtataaacag tgctcccggt tcgtttcgca gcattccagc tacttttctg 270300
gtccctgct catccgtgac aacttttctt gtgaccttac ggctgttca tctgaacgt 270360
ttacatcctg cgcacatcgc ccgatgtgat agcttcatcc tgaagcgtcc ctggttatcc 270420
agatccgccg aacatcctga tcggctctcg ttctccgtcc tggaggtgct ctttaacgca 270480

tccctgcgctt tccactttgc ttcacccctga agcctttcct tgtaacacca tccctggcggtg 270540
tccctgctgaa gcgtcatcat cctgacgttc gcttcgttgt acgactccct gtcgacgaag 270600
atagaatcgc ctgtttcacc ttgtcttaca agacgcttac agacaatacc ttaagtaaatt 270660
tttcatatga aagtgcgcaa aaacatttta attagttgtt ttatatagac ttacataaga 270720
aaacggggct cagtatccgc tgatatccctg gcgatctcct acagactttg taagagatct 270780
ctcacacccg ttagggcaaa cgattacaga agaggattaa gttgcgtaag gaattccgca 270840
agcgttgcgg caagaacggt acgattgcgg gtgcccagcg tttctttaat cacctcgccg 270900
gacagattac agaccgaaat gacctcaagc tcattttcct gcgtcgcaat aaaaagcggtg 270960
ggaggaagct tgagccgctt ttgcgtgacc aggtggccta tcagattttc ctgcacgcgc 271020
cgaaagtcatt cctgactcca ggtttgagct agcgtaagct tttcatccgc aaactgcgcg 271080
ggcatgtcgc cagcaactg cgtggtgtaa aacgcgtgga gcgcaggttg taccataata 271140
tcaaaggcgc gttcaaccgc gtttacattt tcttcgcctt caaaaggctg cggctgccag 271200
taaacggcat cgcggggtga agaaataatg cacggagaag gtacgccata cagttcttcg 271260
ctcaacggcc agctaccgtg tttttcttgc cacgcgtcgc agtaacgcgt cgtaaaggct 271320
ttcaatgcct gcgctgtcag ttctgtccacc agtttctctc ttcataaaaag ccaggatata 271380
cttgacgcat agtgtatctg gtttatgacg gtgaaacatg tcttcttatg aaaaccatca 271440
ggctctcgat ggcttgactc tcggaaaatc aacggattac cgggacaatt atgacgccag 271500
cctgctgcag ggcgtaccgc gcagtttgaa tcgcgaccgc ctcggtattaa cagccgataa 271560
tttgccgttc cacggcgcgg atatctggac gttgtatgaa ctttcctggc ttaacagcca 271620
gggtcttccg caggtcgccg tcggacatgt cgaactggat tacaccagcg ttaatttaatt 271680
cgaatccaaa agtttttaaac tgtatctgaa cagctttaac cagacgcgct ttgacacctg 271740
ggagacggtg cgccagacgc tggagcgcgga tctgcgcgcc tgcgcgcagg gcaacgtag 271800
cgtgaggctt catcgtcttg atgagctgga aggacagcct gtcgccatt tccacggcac 271860
ctgtattgac gatcaggata tcagtatcga caactaccag ttactaccg actatctgca 271920
acatgcggtc agcggcgaga agcaagtaga agaaacgctg gtcagtcac tggtgaaatc 271980
caactgcctg atcaccacc aaccggactg gggctcgata caaattcagt atcgcgggcg 272040
caaatcgac agggaaaaac tgctgcgtta tctggtctcc ttccgtcacc ataatgaatt 272100
tcacgagcag tgcgtagagc gtattttcaa tgacattctg cgcttctgcc agccggaaac 272160
gttaagcgtt tatgcacgct ataccgcgcg cggcgggctg gacattaatc cctggcgag 272220

caataccgat tttgtgcccg ccacgggcag gctggcgcgt cagtaatctt ttttgtcaat 272280
tttgcgtgcc ggattgcgca tgtaagggtt tgaaagggtca tcagccaggg ctattgtaat 272340
caacagggaa tggcgtgttg cgtcccataa ggagtgttact tgattacaca tattagccccg 272400
cttggctcaa tggatatgtt gtgcgaactg gaaagtggaca tgctgaaacg cacggccagt 272460
agcgacctgt atcaactgtt tcgtaactgt tcaacttgccg ttcttaactc cggcagcctg 272520
accgacaaca gcaaagagct gctgtcctgc tttgaaaatt tcgatattaa cgtactgcgc 272580
cgcgagcgcg gcgtgaagct ggaattgatt aatccgcctg aagacgcctt tgttgacggg 272640
cggattattc gtgcgctaca ggctaaoctg ttgcgagtgc tgcgcgacat tctctttgtg 272700
aatgggcaga tccacaatgc cggccgtttc cagcatctgg atcttgaaag ctcaacacat 272760
atcaccaatc tgggtgttctc cattttgccg aacgcccggg cgctgcacgt cggcgaagcg 272820
ccaaacatgg tggatatgctg gggcgggccac tcaattaacg aaaacgagta cctgtatgcc 272880
cgtcgcgtcg gcacgcagtt gggattacgc gagctgaaca tctgcaccgg ctgcggccct 272940
ggggcgatgg aagcccccat gaagggcgcg gcggtcggtc acgcacagca gcgctataaa 273000
gacagccgct ttatcggcct gactgaacct tccattattg cggctgaacc gcctaaccgc 273060
ctggtgaacg aactgatcat catgccggat atcgaaaaac gcctggaagc gttcgtccgt 273120
atcgcacacg gtatcatcat cttcccgggc ggctggtgta cggcggaaga gctgctttat 273180
ttgctgggga ttctgatgaa tccagccaat aaaaatcagg tgctgccgct gatcctgacc 273240
ggacccaaaag agagcgccga ttacttccgc gtgctggatg agtttattac ccatacgcgtg 273300
ggcgaagcgg cccgccgtca ttacgcctc atcattgacg atgcggcgga ggtagcgcgg 273360
ctgatgaaga aagcgatgcc gcaagtgaaa gagaatcgcc gcgatactgg cgacgcctat 273420
agttttaact ggtcgatgcg tattgcaccg gatctgcagg tgccgtttga gccgtcgcat 273480
gagaatatgg ccaacctgaa actgtaccog gatcagccgg ttgagattct ggcggcgat 273540
ctgcggcgcg ccttctccgg tattgtcgcg gggaacgtga aggaggtcgg gatacgcgcc 273600
attgaagcta atggtccgta taaaatccac ggcgatcgag agatgatgcg tcgcatggac 273660
gatctgctgc agggattcgt cgcgcagcat cgtatgaaat tgccgggttc cgcctacatc 273720
ccctgttacg agatctgcgc ttaacgctta tgcccggttg ccgccagcag ccgggcgctt 273780
ctccattcc tttcattgcg gtatggcgat tcacgtatgc cttcattttt tatgatgac 273840
atcagaggta tagcccgcat tgttttataa acaccattta taatttacca taaatagatt 273900
gccaggcaaa cgtttacctg actcctctta ccgtgattta tcggttcaaa ctctcattct 273960

-174-

tcgcaagaat ccactaaaaa ctttgatttt tatagtcaaa cctccgtatc ttgcgcccga 274020
atctttccgg ccttatatcg ttaatggtag 274050

<210> 6
<211> 18
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 6
cctttcttat tgcgggca 18

<210> 7
<211> 18
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 7
gccgatgtgg attatgac 18

<210> 8
<211> 32
<212> DNA
<213> Artificial

<220>
<223> Hybridization Probe

<400> 8
ggattgtttt gattattttg ttatccgtga tg 32

<210> 9
<211> 15
<212> DNA
<213> Artificial

<220>
<223> Hybridization probe

<400> 9
agcaggcttt ggcgt 15

<210> 10
<211> 696
<212> DNA
<213> Salmonella typhi

-175-

<400> 10
 ttatatatca aaggaataat cttcagtttg aatcgtcgcc tgatttgact gatattgttc 60
 aaaaagcgca gttgcctgcg ctaaattctt acacattgta atttttccat gcagcagtac 120
 gccaaacgca tgacagtgtt ctttaataag ccgaggggtg tgcgttagca caatcaaccc 180
 tttctgttgc agctgacaag ctagecgccg ctgcatacgc aactgtgtgg cattatcccc 240
 ggtgtacagc ttgccatcag caatataaag ggggcaggga agcagtaaata taatggcaaaa 300
 tgccagatgc gttttcatcg tgacagaata ttactcacc ctgtcggtat agcactgttc 360
 aagctgggtc aattgataac agaaatgtga aaactcatcg ccatccaggc catatagact 420
 tgccatcatt cgcgcattct cctcaccggt taaccctggc agaataaaaag agtttgcccc 480
 cagtgggagc gcatcacccc gtagcccaat aaaatcccc tcatacaggag catccaggcc 540
 acacagcaac ctggttagcg tcgttttgcc tgaaccagga gccgccagaa taccgatatg 600
 ctcatggtag cccatgacaa aatctgtttt atcaaggacc acccgcgggc cttatcaga 660
 ctcaaaatag cgtgtacaac ctaataaacc gaacac 696

<210> 11
 <211> 16
 <212> DNA
 <213> Artificial

<220>
 <223> Primer

<400> 11
 accccgtagc ccaata 16

<210> 12
 <211> 16
 <212> DNA
 <213> Artificial

<220>
 <223> Primer

<400> 12
 aggagagacg cattcg 16

<210> 13
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> Hybridization probe

-176-

<400> 13
gcatatcggt attctggcgg c

21

<210> 14
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Hybridization probe

<400> 14
ctggttcagg caaaacgacg

20